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BIBLIOGRAPHY OF VENOMOUS AND POISONOUS MARINE ANIMALS AND THEIR TOXINS

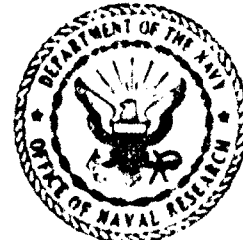
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Prepared by
Findlay E. Russell
Henry Gonzalez
Sue B. Dobson
John A. Coats

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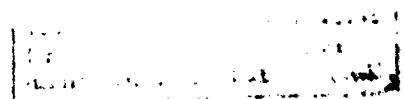
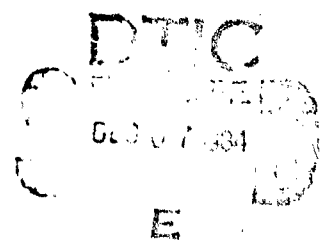
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19. Arthropoda Venomous fishes
 Bryozoa Sea snakes
 Poisonous fishes Marine mammals

BIBLIOGRAPHY OF VENOMOUS AND POISONOUS MARINE ANIMALS AND THEIR TOXINS

by

Findlay E. Russell
Henry Gonzalez
Sue B. Dobson
John A. Coats



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INTRODUCTION

This Bibliography cites most of the papers on the subject of venomous and poisonous marine animals and their toxins published in scientific journals, governmental or major organizational reports, and many general or lay publications prior to 1981. It contains 6,779 citations, most of which have been gathered from the senior author's library and index files, accumulated over the past thirty-five years. In addition, some citations were gleaned from major reference works, such as those by Phisalix (1926), Pawlowsky (1927), Harmon and Pollard (1958), Kaiser and Michl (1958), Pigulevski (1962), Russell (1965), Halstead (1965-70), Kornalik (1967), Rosenfeld and Kelen (1969), Southcott (1975), Maretic (1975), and Hashimoto (1979). Most of these have been rechecked. Excellent sources of references have been the journal Toxicon and the symposia publications of the International Society on Toxinology, as edited by F.E. Russell and P.R. Saunders; A. De Vries and E. Kochva; A. Ohsaka, K. Hayashi, and Y. Sawai; F. Gubensek; P. Boquet; P. Rosenberg; and D. Eaker and T. Wadstrom.

The task of preparing suitable chapter headings was not an easy one. The present form was selected after it had been reviewed with several marine biologists, toxinologists, fisheries scientists, and taxonomists, as well as a physician and a librarian, all of whom were well informed about marine animals. Unfortunately, it was not possible to divide the chapters into subsections on anatomy, chemistry, pharmacology, clinical findings, et cetera, but since many of the articles contained data on several or many disciplines, unnecessary duplication, among other things, would have resulted.

In each chapter, citations refer to articles relating to the poisonousness or venomousness of the animal within the phylum, except in Chapters 9 and 10, where the papers on poisonous fishes (Chapter 9) have been separated from those on venomous fishes (Chapter 10).

Almost all references relate to marine organisms. In a few cases, some titles are cited for the toxins of fresh-water protistan, since the toxins are related or have special toxicological significance. A few references for fresh-water catfish, arthropods, and molluscs have also been noted. Some reports involving a marine toxin (e.g., tetrodotoxin) are cited even though most of the report deals with other subjects or poisons and the marine toxin has been mentioned only as a control or an agent of comparison. Many such papers involving marine toxins as tools are referenced in the Bibliography but some may have been overlooked. It would be impractical to include every work that mentions a marine toxin, for the Bibliography would then become unwieldy, as well as impractical as a source work. References related to the systematics or taxonomy of marine animals have not been cited, except when they also include a discussion of the venomousness or poisonousness of the animal.

All citations are arranged alphabetically by author. Unsigned articles are entered as "Anon." and are arranged in the chapter according to their year of publication. Names of authors are spelled as given in the original sources, except where known typographical errors have been made. Initials

are used for given names. Where initials were omitted in the original article, a dash (-) has been used.

When available, the volume number of a journal or book is given as the first number after the journal title, and it is underlined. In those cases in which a journal is not identified by a volume but by a number, the journal number is placed in parentheses, and it is not underlined. In some instances, particularly if a journal is difficult to obtain, or it has many separate numbers in a volume, both the journal volume and the number are given. In some cases, particularly for the older references where citations were difficult, all possible data are provided.

Citations for an author are entered chronologically. When the same author is the first of two authors, the second author is cited alphabetically and chronologically. When there are more than two authors with the same first author, the entry is cited last, alphabetically and chronologically. No more than five authors are cited for any one paper; if there are more than five authors, the first three are cited and et al. is entered for the remainder.

Brackets have been used when titles have been translated from languages other than German, French, Spanish, Italian, Dutch, or Portuguese. When referring to a specific page of a text, the citation might read "p. 95." When the total number of pages in a book is noted, the citation might read "95p."

In some instances, the title of a publication has not been underlined, as is the case for unpublished theses, dissertations, certain lay articles, and some technical reports that are not generally available. Also, those papers and letters that have not undergone a peer review have not been underlined, except in cases where a society or organization has been responsible for their contents. Abbreviated titles have been used for certain publishers whose books are common to the field of toxinology, such as Pergamon (Press), Academic (Press), Dawsons (William Dawson & Sons Ltd.), and several others.

We have not attempted to clarify taxonomy or the Latin spelling of a family, genus, or species in a title. We suggest that whenever questions arise the reader check the possible synonyms of the organism in an appropriate zoological text. In some articles the Latin names have been misspelled. We have not altered these.

The preparation of this Bibliography, continued over a decade, has provided its share of rewards, the most gratifying being the pleasure of discovering interesting and important papers heretofore unknown to workers in marine toxinology. There are many such references in this text, and reading through the original papers has been a pleasure well worth the time spent.

We apologize for all errors of omission and commission.

Findlay E. Russell
Tucson, Arizona
February 1, 1983

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There are many to whom acknowledgment must be given. Various libraries and librarians should be thanked for their assistance in obtaining hard-to-come-by articles, or for rechecking citations. Among those to whom the authors are particularly grateful are the librarians at the British Museum, Smithsonian Institution, Library of Congress, National Medical Library, Library of the Royal Society of Medicine, Norris and Hancock Libraries at the University of Southern California, University of Arizona Health Sciences Library, Library of the Zoological Society of London, Balfour Library at Cambridge, and the Bodelian at Oxford.

We are particularly indebted to Sharon Pruhs at the Los Angeles County/University of Southern California Medical Center Library and the several librarians of the Office of Naval Research, London, who made it possible to obtain rare manuscripts from various sources.

Thanks are also in order to Barbara Timmermann, Barbara Roth, Bertha Almagro, and Monica Rector for checking entries cited in French, Italian, German, Portuguese, and Spanish. Titles in Japanese, Chinese, Croatian, Slovene, Czechoslovakian, Polish, and Russian have, in many cases, been checked with the specific author(s), but in some instances we have translated the titles into English.

We are also indebted to the Commanding Officers and Chief Scientists of the London Office of Naval Research, who provided facilities for the rather extensive amount of work that had to be done in London. Among others who contributed to the Bibliography, in one way or another, were Igor and Alexandra Ferlan; Shoji Konosu; Yoshiro Hashimoto; Albert H. Banner, Raymond A. Bagnis, Bruce W. Halstead, Gerhard Habermehl, Albert L. Picchioni, Donald A. Thomson, John Paton; the "Sue assistants": Susanna Turner, Susan Mendyka, Belinda Lipka, and Jerry R. Brewer; and Nancy Mairs. Finally, we wish to thank Carol Ortega and the various members of the senior author's staff, who over the years assisted with filing and typing.

DEDICATION

This Bibliography is dedicated to my wife, Marilyn R. Russell, who by all rights should be an author, if for no other reason than for her patience in tracking down references in the British Museum, and elsewhere, during what was supposed to have been a vacation; and to Sir Frederick S. Russell, who has been a continuous source of inspiration, and whom I can still remember standing on the deck of a tug in the driving rain while greeting my family on the SS Liberte in the harbor at Plymouth in 1958.

CHAPTER I

EARLY WORKS

In this chapter, citations have been entered for works published before 1850. Some citations are to works translated or published after 1850, although written prior to that year. The choice of the year 1850 has been arbitrary. However, about that time marine toxinology began to emerge as a science, rather than a collection of anecdotes, myths, and folklore. Nevertheless, some of the earlier observations demonstrate an acute awareness of natural history, and they are still of significance to science.

This chapter is of particular importance to the scientist interested in developing the history of our knowledge about a particular venomous or poisonous marine animals or its toxin.

In some instances we have not been able to confirm citations, since the books could not be found. In such cases we have needed to rely on library cards. We have, insofar as possible, rechecked each title either in the Library of Congress or in the British Museum.

- 1 ACTUARIUS. Physici et Medicie Minores. Ideler: Berrolini, 1841-42.
- 2 ADAMS, A. and REEVE, L. The Zoology of the Voyage of HMS Samareng. Adams, A. (ed.), Reeve, Berham & Reeve: London, 1848.
- 3 AEGINETA, P. The Seven Books of Paulus Aegineta . . . Adams, F. (transl.), 3 vol., London, 1844-47; see also Paulus Aegineta.
- 4 AELIANUS, C. De Historia Animalium. Tiguri, 1555; see also De Natural Animalium. W. Boyer: London, 1774.
- 5 AETIUS OF AMIDA. Aetti Medici Graeci. Tetrabilions, 1549.
- 6 ALDROVANDUS, U. De Piscibus. Serpantum et Draconu Historiae Bononiae. Ferroniu, 1640.
- 7 ALLMAN, G.J. On the stinging property of the lesser weeverfish (Trachinus vipera). Ann. Mag. nat. Hist. 6, 161, 1840.
- 8 ANDERSON, W. An account of some poisonous fish in the South Seas. Phil. Trans. Roy. Soc. London 66, 544, 1776.
- 9 ANON. Death of Mrs. Bell and two children from puffer poisoning. Colonial Times, Hobart, Australia, Mar. 29 (p. 3), Apr. 5 (p. 3), 1831.
- 10 ANSON, G. Voyage Round the World in the Years 1740-44. Walter, R. (ed.), John & Paul Knapton: London, 1745.
- 11 ARISTOTLE. The Works of Aristotle, V., De Partibus Animalium; De Incessu Animalium et De Motu Animalium; De Generatione Animalium. Olge, W., Farguharson, A.S.L. and Platt, A. (transl.), Oxford, 1912.
- 12 ARTEDI, P. Ichthyologia: Sive Opera Omnia de Piscibus. Linnaeus, C. (ed.), Leiden, 1738.
- 13 AUTENRIETH, H.F. Über das Gift der Fische. C.F. Osiander: Tübingen, 287p., 1833.
- 14 AZARA, F., DE. Descripción e historia del Paraguay y del Río de la Plata. Madrid, vol. I, p. 53, 1847.
- 15 BASTER, J. Natuurkundige uitspanningen, behelzende eenige waarnemingen, over sommige zeeplanten en zee-insecten, benevens derzelver zaadhuysjes en eijernestern. J. Bosch: Haarlem, Vol. 1, 169p., 1762; see also Vol. 2, 167p., 1765.
- 16 BAUDRILLART, J.-J. Dictionnaire des Pêches. 2 vol., Paris, 1827.
- 17 BELON, P. De Aquatilibus. La nature et la diversité des poissons, avec leur portraits. C. Stephanus: Paris, 1551-53.
- 18 BENNETT, E.T. Observations on a collection of fishes formed during the voyage of H.M.S. "Chanticleer," with characters of two new species. Proc. zool. Soc. London 1, 112, 1830.
- 19 BLAINVILLE, H.M.D. Manuel d'actinologie ou de zophytologie. Paris, 1834.
- 20 BLOCH, M.E. Ichthyologie ou histoire naturelle des Poissons. 4 vol., Berlin, 1796.
- 21 BLOCH, M.E. Histoire Naturelle des Poissons . . . 10 vol., Deterville: Paris, 1800.
- 22 BLOCH, M.E. Systema Ichthyologiae. Post orbitum auctoris

- opus incheatum absolvit, cor-
rexit, interpolavit. 2 vol., 1801.
- 23 BONAPARTE, C.L. Iconografia
Della Fauna Italica, Tomo 3,
Pesci, 1832-41.
 - 24 BOUCHARDAT, M.A. Sur l'empo-
isonnement par les moules. Ann.
Hyg. 17, 358, 1837.
 - 25 BOURIENNE. Mémoire sur les effets
de la piqure des arêtes de la Vive.
J. Méd. Mil., Paris 1, 371, 1782.
 - 26 BRANDT, J.F. and RATZEBURG,
J.T. Pisces. In, Medizinische
Zoologie. Berlin, vol. 1-2, p. 55,
1829-1833.
 - 27 BROOKS, W. A family poisoned by
eating a gar. Northwest Med.
Surg. J. 7, 437, 1850.
 - 28 BUFFON, G.L., DE. Histoire nat-
urelle, générale et particulière.
13 vol., Royale: Paris, 1769-1770.
 - 29 BULLOCK, M. Case of poisoning by
fish. London med. Gaz. 19, 85,
1836.
 - 30 BUNIVA, C. Mémoire concernant la
physiologie et la pathologie des
poissons, suivi d'un tableau indi-
quant l'ictyographie subalpine.
Mém. Acad. Sci. Litt. et Beaux-
Arts, Turin 12, 78, 1803.
 - 31 BURNETT, W. On the effects pro-
duced by poisonous fish on the
human frame. Proc. Roy. Soc.
London 5, 609, 1846.
 - 32 BURROWS, G.M. An account of two
cases of death from eating mus-
sels; with some general observa-
tions on fish-poison. London med.
Reposit. 3, 445, 1815.
 - 33 BYERLEY, J. On the Trachinus
draco, or otter-pike, sting fish, or
weever. Proc. Lit. Phil. Soc.
Liverpool 5, 156, 1849.
 - 34 CATESBY, M. The Natural History
of Carolina, Florida and the
Baham Islands. 2 vol., Benjamin
White: London, 1771.
 - 35 CELSUS, A.A.C. De Medicina.
B. Fontus: Florentine, 1478.
 - 36 CESENOS, A.D. De Suspectis de
Haeresi. Rome, 1703.
 - 37 CHISHOLM, C. On the poison of fish.
Edinburgh Med. Surg. J. 4, 393,
1808; see also Giorn. Soc. Incorr.,
Milano 8, 154, 1808.
 - 38 CHRISTISON, R. A Treatise on
Poisoning. Adam Black: North
Bridge, 224p., 1832.
 - 39 CLAVIGERO, F.J. The History of
(Lower) California (1789). Lake,
S.E. and Gray, A.A. (transl.),
Stanford Univ. Press: Stanford,
Calif., Vol. 2, 213p., 1937.
 - 40 CLOQUET, H. Ichthyque (Poisson).
In, Dictionnaire des Sciences Nat-
urelles. Paris, Vol. 22, p. 550,
1821.
 - 41 CLOQUET, H. Faune des Medecins.
6 vol., Chez Crochard: Paris,
1822-28.
 - 42 COMBE, J.S. On the poisonous
effects of the mussel (Mytilus
edulis). Edinburgh med. J. 29, 86,
1828.
 - 43 COOKE, J. A Voyage Towards the
South Pole and Round the World
Performed in His Majesty's Ship
the Resolution, and Adventures in
the Years 1772, 1773, 1774, and
1775. 2 vol., W. Strahan & T.
Cadell: London, 1777.
 - 44 COOPER, W.W. Poisoning from eat-
ing mussels (Mytilus edulis).
Lancet (1), 274, 1846.
 - 45 CUVIER, G.L. and VALENCIENNES,
A. Histoire naturelle des

- poissons. 22 vol., L.G. Levrault: Paris, 1828-1849.
- 46 DALRYMPLE, A. An historical collection of several voyages and discoveries in the South Pacific Ocean. London, 1770.
- 47 DARWIN, C. Journal of Research into the Geology and Natural History of Various Countries visited by HMS Beagle, under the Command of Captain Fitzroy, R.N., from 1832 to 1836. Henry Colburn: London, p. 332, 1840.
- 48 DE GOMARA, F. LÓPEZ. Historia general de las Indias. Zaragoza, 1532.
- 49 DE LANDA, D. Relación de Las Cosas de Yucatán. 1536.
- 50 DELLON, C. Nouvelle Relation d'un Voyage fait aux Indes Orientales. Amsterdam, 319p., 1699.
- 51 DE QUIROS, P.F. Voyages in the South Sea by the Spanish and Dutch. In, Dalrymple's Collection of Voyages. Vol. 1, p. 140, 1606.
- 52 DESPORTES, J.B. Histoire des maladies de S. Dominique. Paris, vol. 1, p. 108, 1770.
- 53 DIOSCORIDES, P. De Medica Materia, Libri V. J. Soteri: Coloniae, 753p., 1529.
- 54 DU TERTRE, J.B. Histoire générale des Antilles habitées par les Français. Paris, vol. 2, 1667.
- 55 FERGUSON, W. On the poisonous fishes of the Carribbee Islands. Trans. Roy. Soc. Edinburgh 9 (1), 65, 1823.
- 56 FERNÁNDEZ DE OLIVIEDO, G.Y. and VALDEZ, D.G. La historia general de las Indias. R. de Peters: Toledo, 1523; Sevilla, 1535.
- 57 FORSTER, G. A Voyage Round the World. London, Vol. 2, p. 403, 423, 1777.
- 58 FORSTER, J.R. Remarks on the Organic Bodies. Observations Made During a Voyage Round the World on Physical Geography, Natural History, and Ethic Philosophy. C. Robinson: London, p. 210, 642, 1778.
- 59 FORSTER, J.R. Insulae Tropicae Orientales. Descriptiones Animalium quae in itinere ad Maris Australis Terras per annos 1772-1778... curante. H. Berolini: Lichenstein, p. 227, 1844.
- 60 FRANCE, D.G. Ova Barbi comesta noxia. Acta Acad. Nat. Curios 1 (2), 61, 1638.
- 61 FUKUSHIMA, M. [Puffers fed to prisoners experimentally.] Bunsho Kanaki, 1716.
- 62 GALEN, C. Opera Omnia. Giunta: Venice, 1597.
- 63 GALIAY, D.M. Empoisonnement accidentel de plusieurs personnes, produit par un poisson de mer connu sous le nom de thon ou de Scomber thynnus. Bull. gén. Therap. 29, 204, 1845.
- 64 GAZIO, A. Corona Florida Medicinae, sive de Conservatione Sanitatis. Joannes & Gregorius de Gregoriis de Forilvio: Venice, 1491.
- 65 GESNER, K. Historia Animalium. C. Froschouerum: Tiguri, 1551-87; see also Historiae Animalium, Zurich, 1558 and Fischbuch das ist ein Kurtze, C. Froschouer: Zurich, 1563.
- 66 GLOVININ, V.M. [Travels Around the World on the Naval Sloop "Kamchatka" in 1817, 1818, and 1819.] Mysl. Press: Moscow, 384p., 1817.

- 67 GMELIN, J.F. Allgemeine Geschichte der thierischen und mineralischen Gifte. J.K. Muller: Erfurt, 391p., 1811.
- 68 GOÜAN, A. Histoire de poissons. Strasbourg, 276p., 1770.
- 69 GOUAN, A. Histoire des poissons contentant piscium, sistens ipsorum la Description Anatomique. Strasbourg, 252p., 1770.
- 70 GREVIN, J. Deux livres des venins. Chr. Plantin: Paris, 423p., 1368.
- 71 GREVIN, J. De Venenis. 2 vol., Chr. Plantin: Antwerp, 1371.
- 72 GUMILLA, R.P. Voyage à l'Orénoque. De Saint & Sallanti: Paris, 3, 126, 1758.
- 73 GUMILLA, R.P. Histoire naturelle, civile et géographique de l'Orénoque et des principales rivières qui s'y jettent. Avignon: Paris, 1758.
- 74 HENDERSON, P.B. Case of poisoning from the bonito (Scomber pelamis). Edinburgh med. J. 34, 317, 1830.
- 75 HERNÁNDEZ, P. Quatro Libros de Naturaleza, y Virtudes de las Plantas, y Animales que Están Receivedio en el Uso de Medicina en la Nueva España. Diego López Dávalos: Mexico, 1615.
- 76 HOUTTUYN, M. Natuurlyke Historie. 17 vol., Amsterdam, 1761-62.
- 77 JANIÈRE, S. Recherches sur les poissons vénéneux de la Guadeloupe. Ann. Soc. Roy. Acad. Nantes et Dépt. Loire-Inférieure 2, 387, 1831.
- 78 JOHNSTON, G. Introduction to Conchology or Elements of the Natural History of Molluscous Animals. J. Van Voorst: London, 1830.
- 79 KAEMPFFER, E. The History of Japan. 2 vol., Scheuchzer, J.G. (transl.), London, 1727.
- 80 KAIBARA, Y. [Globefish Poisoning.] Yomato Honso, 1708.
- 81 KESTELOOT, M. Toxicographie de quelques poissons et crustacés de la mer du Nord. Arch. Méd. Belg. 7, 225, 1842.
- 82 KOLB, J.N. Bromatologie ober Uebersicht der bekanntesten Nahrungsmittel der Bewohner der verschiedenen Welttheile, naturhistorisch und mit Hinseisung auf ihren diätetischen und pharmakodynamischen Werth. Part I, Gelährten Buchhandlung: Hadamar, 236p., 1826.
- 83 LABBEY, L. Sur les accidents causés par les moules. J. Chim. Méd., Paris 2, 243, 1837.
- 84 LACÉPÈDE, B.G., DE. Histoire Naturelle des Poissons... dédiée au cityoen Lacépède. 14 vol., Paris, 1799-1804.
- 85 LACÉPÈDE, B.G., DE. Histoire Naturelle des Poissons, par M. le Comte de Lacépède, suite et complement des oeuvres de Buffon. 5 vol., Paris, 1819.
- 86 LACÉPÈDE, B.G., DE. Naturgeschichte der Fische. 2nd edit., 3 vols., Desmarest (ed.), Paris, 1833-35.
- 87 LACÉPÈDE, B.G., DE and DUMÉRIL, A.H.A. Dictionnaire des Sciences Naturelles. 60 vol., Paris, 1816-1830.
- 88 LAMPRIERE, W. Popular Lectures on the Study of Natural History and the Sciences, Vegetable Physiology, Zoology, the Animal and

- Vegetable Poisons, and on the Human Faculties, Mental and Corporeal. 2nd edit., Whittaker, Treacher & Co., 414p., 1830.
- 89 LEIGH, W.H. Reconnoitering Voyages and Travels with Adventures in the New Colonies of South Australia. Smith, Elder & Co.: London, 164p., 1839.
- 90 LINNAEUS, C. Systema Naturae. Lugduni Batavorum, 1736.
- 91 LIPP, F.J. De piscibus veneatis. Dissertatio Inauguralis medica. Tubingae, 31p., 1829.
- 92 LOCKE, J. An extract of a letter written to the publisher by Mr. J. Locke about poisonous fish in one of the Bahama Islands. Phil. Trans. Roy. Soc. 10, 312, 1675.
- 93 LOVELL, R. Panzooalogicominerologia or a Compleat History of Animals and Minerals. H. Hall for J. Goolwins Oxford, 1661.
- 94 LOWE, R.T. A synopsis of the fishes of Madeira. Trans. zool. Soc. London 2, 180, 1841.
- 95 LOWE, R.T. A History of the Fishes of Madeira. Bernard Quaritch: London, 196p., 1843-1860.
- 96 MAKISHIMA, A. [Case report on puffer poisoning.] Shogen Jiko, 1708.
- 97 MARTIN, R.M. History of the British Colonies. Cochrane: London, vol. 4, p. 436, 1835.
- 98 MARTYR, P. De Orbe Novo; The Eight Decades of Peter Martyr d'Anghera. J. Bebellum: Basileae, 1533; MacNutt, F.A. (transl.), 2 vol., Putnam Sons: N.Y., 1912.
- 99 MEYER, F.D. On the poisonous quality of a species of West Indian fish. Philadelphia Med. Phys. J. 1, 43, 1805.
- 100 MIURA, Z. [Globe fish poisoning.] Keicho Kunhunshu, (ca.) 1600.
- 101 MOREAU DE JONNÈS, A. Recherches sur les poissons toxicoferes des Indes occidentales. Bull. Sci. Soc. Philomath. Paris (ser. 3), 6, 136, 1819; see also Nouveau J. Med. Chir. Pharm., Paris 11, 356, 1821.
- 102 MÜLLER, J. and TROSCHER, F.H. Horae Ichthyologicae. Berlin, 68p., 1845-49.
- 103 MÜLLER, O.F. Zoologia danica sur animalium danicae et Norvegiae rariorum ac minus notorum descriptiones et historia. 4 vol., N. Mølleri et Filii: Havniae, 1788-1806.
- 104 MUNIER, L. Sur la maladie occasionnée par différents poissons de l'Isle de France et de Bourbon. Observ. Phys. Hist. Nat. Arts 3, 227, 1774.
- 105 NICANDER, U. Theriaca et Alexipharmaca. Manutium: Venetiis, 1499.
- 106 NICOL, J. The Life and Adventures of John Nicol, Mariner. Edinburgh, p. 107, 1822.
- 107 NIEL, J.G. Observations sur les accidents qui proviennent de l'usage des poissons empoisonnés, etc. Ann. Clin. Rec. Period. (Montpellier) 36, 315, 1815.
- 108 NIEREMBERG, J.E. Historia Naturae. Plantiniana B. Moreti: Antverplae, 1635.
- 109 OLDENDORP, C.G.U. Geschichte der Mission der evangelischen Brüder auf den Caribischen Inseln St. Thomas, St. Croix, und St. Jean. Krummer: Leipzig, 1777.

- 110 OPPIAN (of Corycus). De Piscata, Libri V., 1478; see also Musurus, M. (ed.), Florentiae, 140p., 1515.
- 111 ORFILA, M.P. Traité des Poisons. Crochard: Paris, 1818; Longman et al.: London, 126p., 1820.
- 112 OSBEC, P. A Voyage to China and the East Indies. Forster, J.R. (transl.), B. White: London, 1771.
- 113 PARE, A. Oeuvres Completes d'Ambroise Pare, Book 23, Traitant des venins et morsure de chiens enragés. G. Cavellat: Paris, 1575.
- 114 PARELIUS, J. Beschreibung einiger Sternrochen oder Asteriden, Part 4. K. Norske videnskabers selskab, Trondhjen Skrifter aus dem Dänischen übersetzt, Copenhagen und Leipzig, p. 349, 1770.
- 115 PARRA, A. Descripción de diferentes piezas de historia natural las más del ramo marítimo, representadas en setenta y cinco láminas. Havana, 1787.
- 116 PASQUIER, V. De la présence du cuivre dans les moules. J. Hyg. Publ. Priv. I, 6, 1849.
- 117 PAULUS (of Aegineta). Opus de re medica. Coloniae, 1534; see also Pauli Aeginetae medici opera. Veneto, 1531.
- 118 PETRUS DE ALBANO. Tractatus de Venenes. Mantua, 1472.
- 119 PISO, G. De Indiae utriusque re naturali et medica libri quatuordecim. Elzevirios: Amsteladami, 1658.
- 120 PISO, G. De medicina brasiliensi libri quatuor. In, Historia naturalis Brasiliae. F. Hackium: Ludgun; Bataforum & L. Elzevirium: Amsteladami, p. 44, 1648.
- 121 PLENCK, J.J.A. Toxicologia seu Doctrina de Veneris et Antidotes. Wappler & Beck: Vienna, 1801.
- 122 PLINIO EL VIEJO. De Venetatis Marinis, Lib. IX. Lemaire: Paris, 1827.
- 123 PLINIUS SECUNDUS, (C.). The Histoire of the World. Commonly Called, The Natural Histoire of C. Plinius Secundus. Holland, P. (transl.), London, 1601.
- 124 PONTOPPIDIAN, E.L. Versuch einer natürlichen Historie von Norwegen. 2 vol., Mumme, F.E. (ed.), aus dem Dänischen übersetzt von J.A. Scheiben, Flensburg and Leipzig, 1753-54.
- 125 PRESTWICH, J. Prestwich's Dissertation on mineral, animal, and vegetable Poisons; containing a Description of Poisons in general, their Manner of Action, Effects on the Human Body, and respective Antidotes; with Experiments and Remarks on Noxious Exhalations from Earth, Air and Water. Together with several extraordinary Cases. 8 vol., London, 1773.
- 126 QUENOT, H. Des Animaux Venimeux de la France. Paris, 21p., 1835.
- 127 RAVENAU DE LUSSAN. Journal du voyage fait à Mer du Sud. Paris, 1693.
- 128 REES, A. The Cyclopaedia. London, 1802 (1819-1820).
- 129 REEVE, L. Monograph of the Genus Conus, Vol. 2 and Suppl., Conchologia Iconica. Reeve, Benham & Reeve: London, 1843-49.
- 130 RENARD, L. Histoire naturelle des plus rares Curiosités de la Mer des Indes, Part 2. Amsterdam, 1718.
- 131 RICHTER, J.G.O. Ichthyotheologie. Leipzig, 912p., 1754.

- 132 RISSO, A. Ichthyologie de Nice. F. Schoell: Paris, 1810.
- 133 ROCHEFORT, C., DE. Histoire naturelle et morale des Iles Antilles. Rotterdam, 527p., 1658.
- 134 RONDELET, G. Libri de piscibus marinis. M. Bonhomme: Lyons, 1534-53.
- 135 RONDELET, G. Universae aquatillum historiae . . . Matthiam Bonhomme: Lugduni, 1554.
- 136 RONDELET, G. L'Histoire Entiere des Poissons. Bonhomme: Lyons, 399p., 1538.
- 137 SALVAINUS, H. Aquatillum Animalium Historiae. Hippolytum Salvanium: Rome, 1557.
- 138 SÁNCHEZ LABRADOR, J. (1776). El Paraguay Natural, manuscrito inédito, Roma. Archivo de la Compañía de Jesús. Peces, XIV (art. 1), El Paraguay. Católico, La Plata, vol. 1, p. 14, 1910.
- 139 SÁNCHEZ LABRADOR (Francisco Jose). Peces y aves del Paraguay natural ilustrado, 1767. Castex, M.N. (ed.), Fabril Editora, S.A.: Buenos Aires, 511p., 1968.
- 140 SAUVAGES. De Venenatis Galliae Animalibus. Thesis, Rothomagensi Academia, Montpellier, 1758.
- 141 SCHEUCHZER, J.J. Physique Sacrée ou Histoire Naturelle de la Bible. 8 vol., Amsterdam, 1732-37.
- 142 SCHLEGEL, H. Reptilia. In, P.F. Siebold's Fauna Japonica. Ludguni Batavorum: Leiden, p. 89, 1833.
- 143 SCHOMBURGK, R.H. Naturalist's Library, Vol. 5, Ichthyology, Part 2, Fishes of Guiana. W.H. Lizars: Edinburgh, 1843.
- 144 SCHOMBURGK, R.H. Reisen in British-Guiana in...1840-44. Leipzig, 1848; Roth, E. (Engl. transl.), Georgetown, 1923.
- 145 SCHONEVELDE, S. Ichthyologia et Nomenclaturae Animal Marinarum. Hamburgi, 87p., 1624.
- 146 SENGBUSCH, E. Über das Fischgift, mit besonderer Berücksichtigung der in Russland vorgekommenen Vergiftungen durch gesalzene Fische. Med. Zeitung Russlands (St. Petersburg) 48-52, 377, 1844.
- 147 SICHLER, I. De piscibus venenatis. Dissertatio inauguralis medico chirurgica. Tubingae, 37p., 1830.
- 148 SLOAN, H. A Voyage to the Islands Madera, Barbados, Nieves, S. Christophers and Jamaica. London, vol. 1, p. 22, 1707.
- 149 SONNERAT, P. De la description des poissons de l'Île de France qui occasionnent des maladies à ceux qui en mangent. Observ. Phys. Hist. Nat., Rozier 6, 76, 1774.
- 150 SONNINI, C.N. Histoire naturelle, générale et particulière des poissons. In, Buffon: Histoire naturelle. 13 vol., Paris, 1803.
- 151 STEPHENSON, J. Medical Zoology and Mineralogy. Churchill: London, 350p., 1838.
- 152 THOMAS, E.. On the poison of fish. Mem. med. Soc., London 5, 94, 1799.
- 153 THOMSON, J. A treatise on the diseases of Negroes in the island of Jamaica. Jamaica, 1820.
- 154 THUESSINK. Beobachtungen über die giftige Eigenschaft des Fischfettes. Mus. Heilkunde, Zürich 3, 183, 1795.

- 155 TREMBLEY, A. Mémoires pour servir à l'histoire d'un genre de Polypes d'eau douce, à bras en forme de cornes. J. & H. Verbeek: Leiden, 324p., 1774.
- 156 TUGERT, V.S. Unterhaltungen aus der Naturgeschichte. Wien, 1797.
- 157 VALENCIENNES, M.A. Ichthyologie des Iles Canaries, ou histoire naturelle des poissons. Paris, 109p., 1833-1830.
- 158 VALENTIN, G. Anatomie des Échinoderms . . . Anatomie du genre Echinus. Première monographie. Neuchatel, 126p., 1841.
- 159 VALMONT DE BOMARE, J.C. Dictionnaire raisonné universel d'Histoire Naturelle. Paris, 1763.
- 160 VANCOUVER, G. A Voyage of Discovery to the North Pacific Ocean and Round the World. G.C. & J. Robinson: London, vol. 2, 1798; see also J. Stockdale: London, 1801.
- 161 VINCENTIUM, A. Evonymi Philatri de Remediis Secretis. Lugduni, 1559.
- 162 WEST, H. Beiträge zur Beschreibung von St. Croix. C.G. Profft: Copenhagen, p. 246, 1794.
- 163 WILLUGHBY, F. De Historia Piscium Libri quator Oxonii, 1686.
- 164 WILSON, J. A Missionary Voyage to the Southern Pacific Ocean, Performed in the Years 1796, 1797, 1798, in the Ship "Duff" Commanded by Capt. James Wilson. London, 1799.
- 165 WULFF, J.C. Ichthyologia, cum Amphibus regni Borussici methodo Linneana. Regiomonti, 60p., 1765.
- 166 YARRELL, W. A History of British Fishes. 2 vol., John van Voorst: London, 1836.

CHAPTER II

GENERAL WORKS

This chapter contains citations for most of the important books, papers, and reports treating of the overall problem of venomous or poisonous marine animals, as well as those which deal with more than one or many of the animal's poisons. Some standard textbooks on marine animals have been included, when such books were found to contain a significant amount of data on the etiology of the animal's poisonousness, the general structure and function of the venom apparatus, or the general nature of marine animal toxins.

In some cases, works are cited when two or more marine toxins have been discussed in the body of presentation, particularly if such citations present comparative data. In those cases where specific data are involved, the citations in this Chapter will also be noted in the chapter dealing with that phylum.

A number of general works written between 1850 and 1910 touch upon venomous marine animals, but few of these contribute information beyond the texts cited in Chapter I, and for that reason they have not been noted.

- 167 ACKERMANN, D. Biogene Amine und andere Inhaltsstoffe der Tier- und Pflanzenwelt. Ber. Physik-Med. Ges. Würzburg 70, 1, 1962.
- 168 ACKERMANN, D. and KUTSCHER, F. Comparative biochemistry of the vertebrates and invertebrates. Ann. Rev. Biochem. 5, 453, 1936.
- 169 ALAM, M. Marine biotoxins. In, Environment and Health. Trieff, N.M. (ed.), Arbor Science: Ann Arbor, p. 479, 1980.
- 170 ALBAHARY, C. and BUDKER, P. Dangers des animaux aquatiques. In, Encyclopedie Medicochirurgicale. Begon, C. (ed.), Editions Tech.: Paris, 1958.
- 171 ANON. Venomous bites and stings. Mon. Cyclop. pract. Med., Philadelphia 12, 219, 1958.
- 172 ANON. Hazards of water sports. What's New 208, 20, 1958.
- 173 ANON. Bibliography on bites, stings and arachnidism. Texas J. Med. 56, 888, 1960.
- 174 ANON. Deadly sea beasts or life-savers? Sci. News 90, 498, 1966.
- 175 ANON. Additional research on the biology of venomous marine animals of Southeast Asia. Commerce Bus. Daily, p. 15, March 27, 1970.
- 176 ANON. Further research on the ecology, behavior and toxicity of venomous marine animals. Commerce Bus. Daily, p. 3, May 20, 1970.
- 177 ANON. The sting of the sea. Emerg. Med. 3, 64, 1971.
- 178 ANON. Water, water everywhere. Emerg. Med. 5, 108, 1973.
- 179 ANON. Jaws that bite, things that sting (An interview with Dr. F.E. Russell). In, Back to Basics. Cohen, I.J. (ed.), E.M. Books: N.Y., 1979.
- 180 APENKOV, A.F., POTAPOV, A.V. and SIMASINA, T.M. [Rendering first aid and the treatment of lesions from poisonous marine animals.] Med. Sestra 37, 35, 1980.
- 181 ARNOULD. Nouveaux éléments d'Hygiène. J.B. Baillière et Fils: Paris, 763p., 1881.
- 182 ARTHUS, M. In, Traité de physiologie normale et pathologique, Tome I, Physiologie générale. Roger, G.H. and Binet, L. (eds.), Masson & Cie: Paris, p. 1113, 1933.
- 183 BAGNIS, R., BERGLUND, F., ELIAS, P.S. et al. Problems of toxicants in marine food products. I. Marine biotoxins. Bull. Wld. Hlth. Org. 42, 69, 1970.
- 184 BAKER, J.T. and MURPHY, V. Handbook of Marine Science, Vol. I, Compounds from Marine Organisms. CRC Press: Cleveland, 1976.
- 185 BALDONI, A. [Poisons placed on the surface of mammalian hearts.] Minerva Biol. 4, 16, 1906.
- 186 BANFIELD, E.J. The confessions of a beachcomber. In, Garden of Coral. 3rd edit., Australasian Publ. Co.: Sydney, 1913.
- 187 BANNER, A.H. Poisonous marine animals, a synopsis. J. forens. Sci. 12, 180, 1967.
- 188 BANNER, A.H. Marine toxins from the Pacific. I. Advances in the investigation of fish toxins. In, Animal Toxins. Russell, F.E. and

- Saunders, P.R. (eds.), Pergamon: Oxford, p. 157, 1967.
- 189 BANNER, A.H. The biological origin and transmission of ciguatoxin. In, Bioactive Compounds from the Sea, Vol. I, Marine Science. Humm, H.J. and Lane, C.E. (eds.), Dekker: N.Y., p. 15, 1974.
 - 190 BANNER, A.H. Hazardous marine animals. In, Forensic Medicine: A Study of Trauma and Environmental Hazards, Vol. III, Environmental Hazards. Tedeschi, C.G., Eckert, W.G. and Tedeschi, L.G. (eds.), W.B. Saunders: Philadelphia, p. 1348, 1977.
 - 191 BASLOW, M.H. Marine Pharmacology. A Study of Toxins and Other Biologically Active Substances of Marine Origin. Williams & Wilkins: Baltimore, 1969.
 - 192 BASLOW, M.H. Marine toxins. Ann. Rev. Pharmacol. 11, 447, 1971.
 - 193 BISSET, N.G. Hunting poisons in the North Pacific region. Lloydia 39, 87, 1976.
 - 194 BLANCHARD, M.R. Traité de Zoologie Médicale. 2 vol., J.B. Baillière & Fils: Paris, 638p., 1890.
 - 195 BLYTHE, A.W. Poisons. Their Effects and Detection, Vol. II. W. Wood: N.Y., 1885.
 - 196 BODET, R. Traité d'Hygiène, de Médecine et de Chirurgie Navales. Paris, 1896.
 - 197 BOTTARD, A. Les Poissons Venimeux: Contribution à l'Hygiène Navale. Octave Dion: Paris, 198p., 1889.
 - 198 BRIGGS, M.H. The chemistry of animal venoms. Sci. Prog. 48, 456, 1960.
 - 199 BROcq-ROUSSEAU, D. and FABRE, R. Les Toxalbumines. Hermann & Cie: Paris, p. 6, 15, 25, 1942.
 - 200 BROOKS, V.J. and JACOBS, M.B. Poisons: Properties, Chemical Identification, Symptoms and Emergency Treatment. 2nd edit., Van Nostrand: N.Y., 272p., 1958.
 - 201 BROWN, M.E. The Physiology of Fishes. 2 vol., Academic: N.Y., 273p., 1957.
 - 202 BUCKLEY, E.E. and PORGES, N., editors. Venoms. A.A.A.S.: Washington, 467p., 1956.
 - 203 CALMETTE, A. Contribution à l'étude des venins, des toxines et des sérums antitoxiques. Ann. Inst. Pasteur 9, 225, 1895.
 - 204 CALMETTE, A. Les Venins. Les Animaux Venimeux et la Sérothérapie Antivenimeuse. Masson & Cie: Paris, 396p., 1907.
 - 205 CALMETTE, A. Venoms. Venomous Animals and Antivenomous Serum-Therapeutics. John Bale, Sons & Danielson: London, 403p., 1908.
 - 206 CAMERON, A.M. Toxicity phenomena in coral reef waters. Proc. 2nd Intern. Coral Reef Symp. 1, 513, 1974.
 - 207 CASTELLANI, A. and CHALMERS, A.J. Venomous animals. In, Manual of Tropical Medicine. 3rd edit., Wm. Wood & Co.: N.Y., 1919.
 - 208 CHARNOT, A. La toxicologie au Maroc. Mém. Soc. Sci. nat. Maroc (47), 86, 1945.
 - 209 CHATIN, J. Venin. N. Dict. med. chir. prat. Paris 39, 1, 1886.
 - 210 CHENTSOV, B.V. [Toxic and antimicrobial substances in the

- tissues of some sea invertebrates.] Trud. Murmanskogo Morsk. Biol. Inst. Aka. Nauk. S.S.S.R. (4), 244, 1962.
- 211 CHEVALLIER, A. and DUCHESNE, E.A. Mémoire sur les empoisonnements par les huitres, les moules, les crabes, et par certain poissons de mer et de rivière. Ann. Hyg. Pub., Paris 45 (11), 387; 46 (1), 108, 1851.
- 212 CHIESA, J.A.L. Peces. Buenos Aires, 308p., 1945.
- 213 CLELAND, J.B. Injuries and diseases of man in Australia attributable to animals (except insects). Aust. med. Gaz. 32 (11), 269, 1912.
- 214 CLELAND, J.B. Injuries and diseases of man in Australia attributable to animals (except insects). Aust. med. Gaz. 32, (12), 295, 1912.
- 215 CLELAND, J.B. Injuries and diseases of man in Australia attributable to animals, except those due to snakes and insects. 6th Rept., Govt. Bur. Microbiol., Dpt. Pub. Hlth., N.S.W., 266, 1916.
- 216 CLELAND, J.B. Injuries and diseases in Australia attributable to animals (except insects). Med. J. Aust. (2), 339, 1924.
- 217 CLELAND, J.B. Injuries and diseases in Australia attributable to animals (other than insects). Med. J. Aust. (2), 157, 1932.
- 218 CLELAND, J.B. Injuries and diseases in Australia attributable to animals (insects excepted). Series V: Mammals, fish, spiders and ticks etcetera, shellfish, sponges, Protozoa. Med. J. Aust. (2), 313, 1942.
- 219 CLELAND, J.B. Injuries from animals. Med. J. Aust. (2), 490, 1942.
- 220 CLELAND, J.B. and SOUTHCOTT, R.V. Injuries to Man from Marine Invertebrates in the Australian Region. Commonwealth Aust.: Canberra, 1965.
- 221 COLBY, M. Poisonous marine animals in the Gulf of Mexico. Trans. Tex. Acad. Sci. 26, 62, 1943.
- 222 CONTARDI, A. and LATZER, P. [Animal poisons.] Giorn. chim. ind. applicata 9, 55, 1926.
- 223 COURVILLE, D.A., HALSTEAD, B.W. and HESSEL, D.W. Marine biotoxins: isolation and properties. Chem. Rev. 58, 235, 1958.
- 224 COUTANCE, A. Le poison à l'aurore de la vie, leur production, leur fonctions pendant la vie—dangers et utilité pour l'homme. In, Venins et Poisons. J. Rothschild: Paris, 1888.
- 225 COUTIÈRE, H. Poissons venimeux et poissons vénéneux. Thèse, AGREG, École Super. Pharm., Paris, 217p., 1899.
- 226 CUÉNOT, L. Les moyens de défense dans la série animale. Encyc. Sci. des aides-mémoire, Paris, 1892.
- 227 DE CLERCQ, M. Aperçu sur les recherches, scientifiques effectuées dans le domaine de la toxicologie marine. Les animaux marins toxicophores. Ann. Biol. 3, 429, 1964.
- 228 DEICHMANN, W.B. (Organizer). Toxicology and Occupational Medicine. (Proc. 1st Inter-Amer. Conf., Key Biscayne, Fla.), 1978.
- 229 DOIG, M.T., MARTIN, D.F. and PADILLA, G.M. Marine bioactive agents: chemical and cellular correlates. In, Marine Pharmacognosy. Action of Marine Biotoxins at the Cellular Level. Martin,

- D.F. and Padilla, G.M. (eds.), Academic: N.Y., p. 1, 1973.
- 230 DRAKE, F. and DRAKE, K. The wonderland of Australia's Great Barrier Reef. Read. Dig., p. 162, March, 1967.
 - 231 DYMSZA, H., SHIMIZU, Y., RUSSELL, F.E. and GRAHAM, H.D. Poisonous marine animals. In, The Safety of Foods. Graham, H.D. (ed.), Avi Publ.: Westport, Conn., p. 625, 1980.
 - 232 EAKER, D. and WADSTRÖM, T., editors. Natural Toxins. (Proc. 6th Intern. Symp. Animal, Plant, Microb. Toxins, Uppsala, August 1979), Pergamon: Oxford, 1980.
 - 233 EDMONDS, C. Dangerous Marine Animals of the Indo-Pacific Region. Wedneil Publ.: Newport, Victoria, 1975.
 - 234 EMERSON, G.A. and TAFT, C.H. Pharmacologically active agents from the sea. Tex. Rept. Biol. Med. 3, 302, 1945.
 - 235 ENDEAN, R. Venomous marine animals. Aust. Territories 5, 31, 1965.
 - 236 ENDEAN, R. Marine toxins. Sci. J. 2, 57, 1966.
 - 237 EVANS, H.M. Sting-fish and Seafarer. Farber & Farber: London, 180p., 1943.
 - 238 FABRE, R. Toxicologie et océanographie. Rev. gén. Sci. pur. appl. 67, 11, 1960.
 - 239 FAULKNER, D.J. The search for drugs from the sea. Oceanus 22, (2), 44, 1979.
 - 240 FAUST, E.S. Die Tierischen Gifte. Friedrich Vieweg & Sohn: Braunschweig, 248p., 1906.
 - 241 FISH, C.J. and COBB, M.C. Noxious marine animals of the central and western Pacific Ocean. U.S. Fish. Wildl. Res. Rept. (36), 45p., 1954.
 - 242 FISHER, A.A. Atlas of Aquatic Dermatology. Grune & Stratton: N.Y., 112p., 1978.
 - 243 FISHER, A.A. and ORRIS, W.L. Aquatic contact dermatitis. Cutis 12, 687, 1973.
 - 244 FLECKER, H. Injuries produced by marine organisms in tropical Australia. Med. J. Aust. (2), 556, 1957.
 - 245 FLURY, F. Über tierische Gifte. Berl. klin. Wochschr. 56, 906, 1919.
 - 246 FLURY, F. Tierische Gifte und ihre Wirkung. Handb. norm. path. Physiol. 13, 102, 1929.
 - 247 FONSECA, F., DE. Animais Peconhentos. Inst. Butantan: São Paulo, 367p., 1949.
 - 248 FONTAINE, M. Les sciences pharmaceutiques et l'exploitation des océans. Ann. pharm. franc. 20, 73, 1962.
 - 249 FOX, D.L. Perspectives in marine biochemistry. Ann. N.Y. Acad. Sci. 90, 617, 1960.
 - 250 FREUDENTHAL, H.D., editor. Drugs from the Sea. (Transac. Drugs from Sea Symp., Univ. Rhode Isl., August 1967), Mar. Tech. Soc.: Washington, 1967.
 - 251 FÜRTH, O., VON. Tierische Gifte. In, Vergleichende chemische Physiologie der niederen Tiere. G. Fischer: Jena, 1903.
 - 252 GALLER, S.R. Marine life: friend and foe of the fleet. Nav. Res. Rev., p. 4, April-May, 1964.

- 253 GARNET, J.R. Venomous Australian Animals Dangerous to Man. Commonwealth Serum Lab.: Parkville, Australia, 86p., 1968.
- 254 GELLER, J.P. Les dangers de la fauna sous-marine des côtes française. Thèse, Toulouse Univ., 1978.
- 255 GESSNER, O. Tierische Gifte. In, Handbuch der experimentellen Pharmakologie. Julius Springer: Berlin, vol. 6, p. 61, 81, 1938.
- 256 GILLET, K. and MC NEILL, F. The Great Barrier Reef and Adjacent Isles. Coral Press: Sydney, 209p., 1962.
- 257 GRUÈRE, J.B. Des venins et des animaux venimeux. Thèse, Paris, 1854.
- 258 GRUPPER, C. and DAVID, R. Dermatite provoquée par la méduse réaction d'abord hypertrophique, puis atrophique, persistante. Bull. Soc. franç. Derm. Syph. 65, 57, 1958.
- 259 GUNTHER, R.T. The Greek Herbal of Dioscorides. Hafner Publ.: N.Y., 710p., 1959.
- 260 HABERMEHL, G.G. Recent progress in the chemistry of marine animal toxins. Bull. Inst. Pasteur 74, 107, 1976.
- 261 HABERMEHL, G. Gift-Tiere und ihre Waffen. Eine Einführung für Biologen, Chemiker und Mediziner, ein Leitfaden für Touristen. Springer-Verlag: Berlin, 126p., 1976.
- 262 HABERMEHL, G. Recent aspects of animal venoms in chemistry and biochemistry. Period. Biol. 80 (Suppl. 1), 5, 1978.
- 263 HALSTEAD, B.W. Animal phyla known to contain poisonous animals. In, Venoms. Buckley, E.E. and Porges, N. (eds.), A.A.A.S.: Washington, p. 9, 1956.
- 264 HALSTEAD, B.W. Unexploited ocean resources. Med. Arts Sci. 11, 72, 1957.
- 265 HALSTEAD, B.W. Dangerous Marine Animals. Cornell Maritime Press: Cambridge, Maryland, 146p., 1959.
- 266 HALSTEAD, B.W. Poisonous and Venomous Marine Animals of the World, Vol. I. U.S. Govt. Print. Off.: Washington, 1965.
- 267 HALSTEAD, B.W. Aspectos médicos de los animales marinos venenosos. Acad. Nac. Med. Buenos Aires (44), 1, 1966.
- 268 HALSTEAD, B.W. Venomous marine animals of Brazil. Mem. Inst. Butantan Simp Internac. 33 (2), 1, 1966 (publ. 1968); see also Abst. Simp. Internac. Venom. Animals, p. 1, 1966.
- 269 HALSTEAD, B.W. Poisonous and Venomous Marine Animals of the World, Vol. II. U.S. Govt. Print. Off.: Washington, 1967.
- 270 HALSTEAD, B.W. Marine biological hazards. J. Ocean Tech. 2, 46, 1968.
- 271 HALSTEAD, B.W. Hazardous marine life. In, Handbook of Ocean and Underwater Engineering. Myers, J.J., Holm, C.H. and McAllister, R.F. (eds.), McGraw-Hill: San Francisco, p. 10, 1969.
- 272 HALSTEAD, B.W. Marine biotoxins: a new source of medicinals. Lloydia 32, 404, 1969.
- 273 HALSTEAD, B.W. Poisonous and Venomous Marine Animals of the World, Vol. III. U.S. Govt. Print. Off.: Washington, 1970.

- 274 HALSTEAD, B.W. A study of the venomous fishes and sea snakes of Southeast Asia. U.S. Nat. Tech. Info. Serv., Govt. Rept. Annon. 72 (8), 100, 1972.
- 275 HALSTEAD, B.W. Marine biotoxicology. In, Global Aspects of Chemistry, Toxicology and Technology as Applied to the Environment, Vol. 3, Environmental Quality and Safety. Coulston, F. and Korte, F. (eds.), Academic: N.Y., p. 212, 1974.
- 276 HALSTEAD, B.W. Poisonous and Venomous Marine Animals of the World. Rev. edit., Darwin Press: Princeton, N.J., 238p., 1978.
- 277 HALSTEAD, B.W. Dangerous Marine Animals. 2nd edit., Cornell Maritime Press: Centreville, Md., p. 77, 1980.
- 278 HALSTEAD, B.W. and DANIELSON, D.D. Death from the depths. Oceans 3, 15, 1970.
- 279 HALSTEAD, B.W. and RUSSELL, F.E. Toxic marine organisms. In, Handbook of Biological Data. Spector, W.S. (ed.), F.A.S.E.B.: Washington, p. 424, 1956.
- 280 HALSTEAD, B.W., CARSCALLEN, L.J. and RUSSELL, F.E. Animal toxins. Part II. Marine organisms. In, Biology Data Book. Altman, P.L. and Dittmer, D.S. (eds.), F.A.S.E.B.: Washington. p. 336, 1964.
- 281 HARMON, R.W. and POLLARD, C.B. Bibliography of Animal Venoms. Univ. Florida Press: Gainesville, Fla., 340p., 1948.
- 282 HASHIMOTO, K. and FUSEYANI, N. Toxins occurring in commercially important marine organisms. Proc. 18th Sess. Indo-Pac. Fish. Comm., Manila 18, (3), 416, 1978.
- 283 HASHIMOTO, Y. [Marine Toxins]. Univ. Tokyo Press: Tokyo, 1977.
- 284 HASHIMOTO, Y. Marine Toxins and Other Bioactive Metabolites. Jpn. Sci. Soc. Press: Tokyo, 369p., 1979.
- 285 HASSEIT, A.W.M., VON. Handbuch der Giftelehre. Die Thiergifte und die Mineralgifte. F. Viewegsohn: Braunschweig, 440p., 1862.
- 286 HELM, T. Dangerous Sea Creatures: A Complete Guide to Hazardous Marine Life. Funk & Wagnalls: N.Y., 278p., 1976.
- 287 HOUSSAY, B. Animales venenosos y dañinos. Expo. Intern. Hyg., Dresden, 1911.
- 288 HUMM, H.J. and LANE, C.E., editors. Bioactive Compounds from the Sea, Vol. I, Marine Science. Marcel Dekker: N.Y., 1974.
- 289 HYMAN, L.H. The Invertebrates, Vol. I, Protozoa through Ctenophora. McGraw-Hill: N.Y., 726p., 1940.
- 290 IDYLL, C.P. Marine sciences. Fed. Proc. 31, TF121, 1972.
- 291 INERING, R., VON. Da Vida dos Nossos Animais. Kotermund: São Leopoldo, 320p., 1963.
- 292 JOHNSON, D.G. and BURGER, W.D. Injury and disease of scuba and skin divers. Postgrad. Med. 49, 134, 1971.
- 293 JONES, O.A. Biology and Geology of Coral Reefs, Vol. III. Academic: N.Y., 433p., 1976.
- 294 JOYEUX, C. Precis de médecine coloniale. Masson & Cie: Paris, 1016p., 1944.

- 295 KAISER, E., editor. Tier und Pflanzengifte/Animal and Plant Toxins. W. Goldmann: Munich, 1973.
- 296 KAISER, E. and MICHL, H. Die Biochemie der tierischen Gifte. F. Deuticke: Wien, 238p., 1958.
- 297 KARLSSON, E. Chemistry of some potent animal toxins. Experientia 29, 1319, 1973.
- 298 KEEGAN, H.L. Some venomous animals of the Far East. 406th Med. Gen. Lab., U.S. Army, Japan, 33p., 1958.
- 299 KEEGAN, H.L. Some venomous and noxious animals of the Far East. 406th Med. Gen. Lab., U.S. Army, Japan, 46p., 1960.
- 300 KEEGAN, H.L. and MACFARLANE, W.V., editors. Venomous and Poisonous Animals and Noxious Plants of the Pacific Region. Pergamon: Oxford, 468p., 1963.
- 301 KEEGAN, H.L., WEAVER, R.E., TOSHIOKA, S. and MATSUI, T. Some venomous and noxious animals of East and Southeast Asia. 406th Med. Gen. Lab., U.S. Army, Japan, 43p., 1964.
- 302 KEELE, C.A. Venoms and the causes of pain. New Scientist 17, 396, 1963.
- 303 KLAUS, G. Pharmaceuticals from the oceans. Drug. Cosmet. Ind. 103, 48, 1968.
- 304 KOBERT, R. Compendium der praktischen Toxikologie. Ferdinand Enke: Stuttgart, p. 158, 1887.
- 305 KOBERT, R. Compendium der praktischen Toxikologie. Ferdinand Enke: Stuttgart, p. 90, 1894.
- 306 KOPSTEIN, P.F. Die giftigen Tiere von Niederländisch-Ost-Indien. Natuurk. Tijdschr. Nederlandse-Inde 86, 123, 1926.
- 307 KORNALIK, F. [Animal Toxins.] State Pub. Hlth.: Prague, 288p., 1967.
- 308 KOVALEVSKAI, A.O. Biochemistry of Marine Organisms. Krev, 169p., 1967.
- 309 KURZE, G. and REGEL, F. Giftige Seetiere in der Südsee. Mitt. Geogr. Ges., Jena 7, 120, 1889.
- 310 LAIGRET, J. and BAGNIS, R. Traumatismes, envenimations et intoxication alimentaires causes par les animaux aquatiques. In, Encyclopedie Medicochirurgicale. Begon, C. (ed.), Edit. Tech.: Paris, vol. 2, p. 1, 1969.
- 311 LEAKE, C.D. Development of knowledge about venoms. In, Venoms. Buckley, E.E. and Porges, N. (eds.), A.A.A.S.: Washington, p. 1, 1956.
- 312 LENDENFIELD, R. Die Giftwaffen der Tiere. Preusse. Jahre. 117, 60, 1904.
- 313 LEWINSOHN, C. Injuries caused by marine animals. Dapim Refuim 21, 704, 1962.
- 314 LINAWEAVER, P.G. Toxic marine life. Milit. Med. 132, 437, 1967.
- 315 LINSTOW, O.V. Die Giftthiere und ihre Wirkung auf den Menschen. August Hirschwald: Berlin, p. 32, 1894.
- 316 LO BIANCO, S. Notizie biologiche riguardanti specialmente il periodo di maturità sessuale degli animali del golfo di Napoli. Mitt. Zool. Sta. Neapel 3, 385, 1888.
- 317 LO BIANCO, S. Notizie biologiche riguardanti specialmente il periodo di maturità sessuale degli

- animali del golfo di Napoli. Mitt. Zool. Sta. Neapel 13, 549, 1899.
- 318 LO BIANCO, S. Notizie biologiche riguardanti specialmente il periodo di maturità sessuale degli animali del golfo di Napoli. Mitt. Zool. Sta. Neapel 19, 650, 1909.
- 319 MAASS, T.A. Gift-tiere. In, Tabulae Biologicae, Vol. XIII. Junk, W. (ed.), N.V. Van de Garde & Drukkerij: Zaltbommel, Holland, 272p., 1937.
- 320 MAC GINITIE, G.E. Notes on the natural history of some marine animals. Am. Midland Naturalist 19, 213, 1942.
- 321 MAC GINITIE, G.E. and MAC GINITIE, N. Natural History of Marine Animals. McGraw-Hill: N.Y., 473p., 1949.
- 322 MACHADO, O. Catálogo sistemático dos animais urticantes e peçonhentos do Brasil. Bol. Inst. Vital Brasil (25), 41, 1943.
- 323 MACKIE, T.T., HUNTER, G.W. and WORTH, C.B. A Manual of Tropical Medicine. W.B. Saunders: Philadelphia, 727p., 1945; p. 615, 1954.
- 324 MAILLOT, M. Étude des animaux venimeux, de leurs venins et des animaux vénéneux. Clermont-Ferrand: Strasbourg, 176p., 1945.
- 325 MANSON-BAHR, P.H. Animal poisons. In, Manson's Tropical Diseases. A Manual of the Diseases of Warm Climates. 13th edit., Williams & Wilkins: Baltimore, p. 842, 1950.
- 326 MARETIĆ, Z. [Dangerous and poisonous animals in the Adriatic Sea.] Nav. Lib. 22, 157, 1969.
- 327 MARETIĆ, Z. [Venomous Animals and Poisonous Animals of the Adriatic Sea.] J.A.Z.U. Zagreb, Yugoslavia, 1975.
- 328 MARINKELLE, C.J. and PALLARES, R.M. Fauna marina venenosa de Colombia. Separ. Rev. Antioq. Med. 14, 477, 1964.
- 329 MARTIN, D.F. and PADILLA, G.M., editors. Marine Pharmacognosy. Action of Marine Biotoxins at the Cellular Level. Academic: N.Y., 317p., 1973.
- 330 MEBS, D. Chemistry of animal venoms, poisons and toxins. Experientia 29, 1328, 1973.
- 331 MERLE, R. Animaux venimeux et venins. Nature (Paris) 50, 225, 1922.
- 332 MINGAZZINI, P. Trattato di Zoologia Medica. Soc. Ed. Dante Alighieri: Roma, 1898.
- 333 MINTON, S.A. Venomous marine invertebrates. In, Diseases Transmitted from Animals to Man. 6th edit., Hubbert, W.T., McCulloch, W.F. and Schurrenberger, P.R. (eds.), C.C. Thomas: Springfield, Ill., p. 1031, 1975.
- 334 MINTON, S.A. Spines and stings and sea snakes. Consultant 17, 45, 1977.
- 335 MOESCHLIN, S. Klinik und Therapie der Vergiftungen. Thieme: Stuttgart, 391p., 1952.
- 336 NARAHASHI, T. Marine pharmacology: mode of action of toxins on excitable tissues. Introduction. Fed. Proc. 31, 1115, 1972.
- 337 NIGRELLI, R.F., STEMPIEN, M.F., JR., RUGGIERI, G.D., LIGUORI, V.R. and CECIL, J.T. Substances of potential importance from

- marine organisms. Fed. Proc. 26, 1197, 1967.
- 338 PARNAS, I. and RUSSELL, F.E. Effects of venoms on nerve, muscle and neuromuscular junction. In, Animal Toxins. Russell, F.E. and Saunders, P.R. (eds.), Pergamon: Oxford, p. 401, 1967.
- 339 PARRISH, H.M. Deaths from bites and stings of venomous animals and insects in the United States. Arch. Int. Med. 104, 198, 1959.
- 340 PAWLOWSKY, E.N. Giftiere und Ihre Giftigkeit. G. Fischer: Jena, 316p., 1927.
- 341 PAWLOWSKY, E.N. Die Giftigkeit im Tierreich und die Gift produzierenden Organe. Seuchenerkämpfung 6, 40, 1929.
- 342 PAWLOWSKY, E.N. [Toxicity in the animal kingdom and organs producing venom.] Russ. Z. trop. Med. 7, 4, 1929.
- 343 PAWLOWSKY, E.N. [Poisonous Animals of the U.S.S.R.] Moscow, 70p., 1931.
- 344 PAWLOWSKY, E.N. Papers on Experimental Zoology and Toxic Animals. Moscow, 208p., 1963.
- 345 PHILLIPS, C. and BRADY, W.H. Sea Pests: Poisonous or Harmful Sea Life of Florida and the West Indies. Univ. Miami Press: Miami, 78p., 1953.
- 346 PHISALIX, C. Venins et animaux venimeux dans la série animale. Rev. scient., Paris 4., S.8: 97, 195, 329, 1897.
- 347 PHISALIX, M. Animaux Venimeux et Venins. 2 vol., Masson & Cie: Paris, 1922.
- 348 PIGULEVSKI, C.G. [Poisonous Animals.] Leningrad, 321p., 1962.
- 349 PINVERT, L. Jacques Grevin (1538-1570). Ancienne Librairie Thorin & Fils: Paris, 415p., 1899.
- 350 POPE, E.C. Some sea animals that sting and bite. Aust. Mus. Mag. 9, 164, 1947.
- 351 POPE, E.C. Some noxious marine invertebrates from Australian seas. Proc. 1st Intern. Conv. Life Saving Techniques. Part III, Sci. Sect., Bull. Post Grad. Comm. Med., Univ. Sydney, p. 91, 1963.
- 352 PREMIZIC, E. Chemistry of natural products derived from marine sources. Prog. Chem. org. nat. Prod. 29, 417, 1971.
- 353 RAILLET, A. Traité de Zoologie Médicale et Agricole. Ausselin & Houzeau: Paris, 1883.
- 354 REGNIER, M.T. Some poisons of animal origin: the venom. J. pharm. chim. 24, 325, 368, 413, 1936.
- 355 RHO, F. [On venomous animals.] Mal. Predom. Paesi Caldi Temperati 2, 361, 1896.
- 356 RIEDL, R. Fauna und Flora der Adria; ein systematischer Meeresführer für Biologen und Naturfreunde. Paul Parey: Hamburg, 640p., 1963.
- 357 RIOJA, R. Los Animales Marinos. Barcelona, 203p., 1929.
- 358 ROBINSON, E.M. Food poisoning caused by materials of animal origin. S. Afr. med. J. 11, 455, 1937.
- 359 ROMANO, S. Animali velenosi della fauna Italiana. Natura, Milano 31, 137, 1940.
- 360 ROSCO, M.D. Cutaneous manifestations of marine animal injuries including diagnosis and treatment. Cutis 19, (4), 507, 1977.

- 361 ROSCO, M.D. Venomous and poisonous marine animals. Intern. Soc. Aq. Med., 1980.
- 362 ROSENBERG, P., editor. Toxins. Animal, Plant and Microbial. (Proc. 5th Intern. Symp. Animal, Plant, Microbial Toxins, San Jose, Costa Rica, August 1976) Pergamon: Oxford, 1134p., 1976.
- 363 ROSENBERG, P. Common names index. Poisonous animals, plants and bacteria. Toxicon 18, 11, 1980.
- 364 ROSENFELD, G. and KELEN, E.M.A. Bibliography of Animal Venoms, Envenomations, and Treatments. Inst. Pinheiros, Produtos Terapeuticos, S.A.: São Paulo, Brasil, 583p., 1969.
- 365 RUGGIERI, G.D. Drugs from the sea. Marine organisms with novel chemical constituents are excellent sources of new drugs. Science 194, 491, 1976.
- 366 RUSSELL, F.E. Injuries by venomous animals in the United States. J.A.M.A. 177, 903, 1961.
- 367 RUSSELL, F.E. Injuries by venomous animals. Med. Arts Sci. 15, 57, 1961.
- 368 RUSSELL, F.E. Venomous animals. (Editorial) J.A.M.A. 177, 912, 1961.
- 369 RUSSELL, F.E. Venomous animals and their toxins. London Times Sci. Rev., p. 10-12, Autumn, 1963.
- 370 RUSSELL, F.E. Injuries by venomous animals. Ann. Int. Med. 61, 803, 1964 (Abst.).
- 371 RUSSELL, F.E. Venomous animals and their toxins. Ann. Rept. Smithsonian Inst. p. 477, 1964.
- 372 RUSSELL, F.E. Venomous and poisonous marine animals and their toxins. 1st Inter-Amer. Naval Res. Conf., San Juan, Puerto Rico, 37p., 1965.
- 373 RUSSELL, F.E. Marine toxins and venomous and poisonous marine animals. In: Advances in Marine Biology, Vol. III. Russell, F.S. (ed.), Academic: London, p. 235, 1965.
- 374 RUSSELL, F.E. Injuries by venomous animals. Am. J. Nursing 66, 1322, 1966.
- 375 RUSSELL, F.E. Poison or medicine. Nature and Sci. 3, 10, 1966.
- 376 RUSSELL, F.E. Toxic marine animals. Nav. Res. Rev. 19, 20, 1966.
- 377 RUSSELL, F.E. Injuries by venomous animals. Natn. Clearinghouse Poison Control Centers, U.S. Dept. Hlth., Ed., Wlfr., U.S.P.H.S., Jan-Feb., 1967.
- 378 RUSSELL, F.E. Comparative pharmacology of some animal toxins. Fed. Proc. 26, 1206, 1967.
- 379 RUSSELL, F.E. Pharmacology of animal venoms. Clin. Pharmacol. Therap. 8, 849, 1967.
- 380 RUSSELL, F.E. Pharmacology of toxins of marine origin. In: International Encyclopedia of Pharmacology and Therapeutics. Raskova, H. (ed.), Pergamon: Oxford, Sect. 71, Vol. 2, p. 3, 1971.
- 381 RUSSELL, F.E. Poisonous Marine Animals. T.F.H. Publ.: Neptune City, N.J., 176p., 1971.
- 382 RUSSELL, F.E. Venomous animal injuries. In: Current Problems in Pediatrics. Gluck, L. (ed.), Year

- Book Med. Publ.: Chicago, Vol. 3, p. 1, 1973.
- 383 RUSSELL, F.E. Prevention and treatment of venomous animal injuries. Experientia 30, 8, 1974.
 - 384 RUSSELL, F.E. Venomous animal injuries. Video-Dig., July, 1974.
 - 385 RUSSELL, F.E. Poisonous and venomous marine animals and their toxins. Ann. N.Y. Acad. Sci. 245, 57, 1975.
 - 386 RUSSELL, F.E. Animal venoms. In, Practice of Medicine. Wolber, P.G.H. (ed.), Harper & Row: Hagerstown, Md., Vol. 9, Chap. 30, p. 1, 1975.
 - 387 RUSSELL, F.E. Diagnosis and treatment of venomous bites, terrestrial and marine. 4th Ann. Sci. Assem., Calif. Chap. Emerg. Phys., p. 1, 1975.
 - 388 RUSSELL, F.E. Venomous bites and stings. In, The Merck Manual. 13th edit., Berkow, R. (ed.), Merck, Sharp & Dohme: Rathway, N.J., p. 1982, 1977.
 - 389 RUSSELL, F.E. Hazardous marine life. Part 1: venomous marine animals. Hyperb. Underseas Med. 1, 1, 1978.
 - 390 RUSSELL, F.E. Pharmacology of venoms. In, Natural Toxins. Eaker, D. and Wadström, T. (eds.), Pergamon: Oxford, 1980.
 - 391 RUSSELL, F.E. Venom poisoning: snakes, arthropods and marine animals. Emergency Medicine, Symposium III, Univ. Calif., San Diego, 1978- .
 - 392 RUSSELL, F.E. and BRODIE, A.F. Venoms. In, Encyclopedia of Chemistry. Hampel, C.A. and Hawley, G.G. (eds.), Van Nostrand Reinhold: N.Y., p. 1139, 1973.
 - 393 RUSSELL, F.E. and BRODIE, A.F. Toxicology: venomous and poisonous marine animals. In, Experimental Marine Biology. Mariscal, R.N. (ed.), Academic: N.Y., Chap. 7, p. 269, 1974.
 - 394 RUSSELL, F.E. and CARLSON, R.W. Marine organisms. In, Biology Data Book. Altman, P.L. and Dittmer, D.S. (eds.), F.A.S.E.B.: Washington, p. 726, 1973.
 - 395 RUSSELL, F.E. and SAUNDERS, P.R., editors. Animal Toxins. (Proc. 1st Intern. Symp. Animal Toxins, Atlantic City, N.J., April 1966) Pergamon: Oxford, 420p., 1967.
 - 396 RUSSELL, F.S. and YONGE, C.M. The Seas. Our Knowledge of Life in the Sea and How It is Gained. Frederick Warne: London, 379p., 1963.
 - 397 SACHS, C. Aus der Llanos Schilderung einer naturwissenschaftlichen Reise nach Venezuela. Leipzig, 1879.
 - 398 SÁNCHEZ LABRADOR, F. Peces y Aves del Paraguay Natural (1767). Castex, M.N. (ed.), Comp. Gen. Fabr. Editoria: Buenos Aires, 511p., 1968.
 - 399 SANTOS, E. Nossos Peixes Marinhos. Zoologica Brasilica. F. Brigueit & Cia: Rio de Janeiro, 267p., 1952.
 - 400 SCHEUER, P.J. Recent developments in the chemistry of marine toxins. Naturwissenschaften 59, 345, 1972.
 - 401 SCHEUER, P.J. Chemistry of Marine Natural Products. Academic: N.Y., 213p., 1973.
 - 402 SCHEUER, P.J. Recent developments in the chemistry of marine toxins. Kagaku 30, 595, 1975.

- 403 SCHEUER, P.J. Recent developments in the chemistry of marine toxins. Lloydia 38, 1, 1975.
- 404 SCHEUER, P.J. Marine toxins. Acc. chem. Res. 10, 33, 1977.
- 405 SCHEUER, P.J., editor. Marine Natural Products: Chemical and Biological Perspectives. 4 vols., Academic: N.Y., 1978-1981.
- 406 SCHEUER, P.J. Marine toxins. In, Survey of Contemporary Toxicology. Tu, A.T. (ed.), Wiley: N.Y., Vol. 1, p. 323, 1980.
- 407 SCHOMMER, F. Einführung in die Homöopathie für Tierärzte. Hannover, 1936.
- 408 SHATTUCK, G.C. Diseases of the Tropics. Appleton-Century Crofts: N.Y., p. 755, 1951.
- 409 SILVERNALE, M.N. Zoology. An Evolutionary and Ecological Approach. Macmillan: N.Y., 562p., 1965.
- 410 SMOLENSKY. Traité d'Hygiène. Broide et Zaguelmann (transl. from Russian), Paris, 1904.
- 411 SOUTHCOTT, R.V. The neurologic effects of noxious marine creatures. In, Contemporary Neurology Series. Hornabrook, R.W. (ed.), F.A. Davis: Philadelphia, Vol. 12, p. 165, 1975.
- 412 SOUTHCOTT, R.V. Australian venomous and poisonous fishes. Clin. Toxicol. 10, 291, 1977.
- 413 SOUTHCOTT, R.V. Marine envenomation and intoxication in man. In, Neurotoxins, Fundamental and Clinical Advances. Chubb, I.W. and Geffen, L.D. (eds.), Adelaide Univ. Union Press: Adelaide, Australia, p. 75, 1978.
- 414 SOUTHCOTT, R.V. Marine toxins. In, Handbook of Clinical Neurology. Vinken, P.J. and Bruyn, G.W. (eds.), Elsevier/North-Holland: N.Y., Vol. 6, p. 581, 1979.
- 415 STORER, T.I. General Zoology. McGraw-Hill: N.Y., 832p., 1951.
- 416 STROHL, J. Die Giftproduktion bei den Tieren vom Zoologisch-Physiologischen Standpunkt. Georg Thieme: Leipzig, 56p., 1926.
- 417 STRONG, R.P. Poisonous arthropods, fish and coelenterates. In, Stitt's Diagnosis, Prevention and Treatment of Tropical Diseases. 7th edit., P. Blakiston's Son & Co.: Philadelphia, p. 1538, 1944.
- 418 SUTHERLAND, S.K. Treatment of venomous animal bites and stings in Australia. Med. J. Aust. (2), 177, 1976.
- 419 TALIZIN, F.F. Poisonous Animals of the Land and Sea. Moscow, 95p., 1970.
- 420 TARNANI, N.K. Our Poisonous Animals. St. Petersburg, 84p., 1907.
- 421 TASCHENBERG, O. Die Giftigen Tiere. Ferdinand Enke: Stuttgart, 325p., 1909.
- 422 TAYLOR, K.M. and SPENCE, I. Marine natural products affecting neurotransmission. In, Neurotoxins. Fundamental and Clinical Advances. Chubb, I.W. and Geffen, L.B. (eds.), Adelaide Univ. Union Press: Adelaide, S. Australia, p. 85, 1979.
- 423 TENNENT, J.E. Sketches of the Natural History of Ceylon. Longman, Green, Longman & Roberts: London, 1861.
- 424 TIDSWELL, F. Researches on Australian Venoms. W.A. Gullick: Sydney, 79p., 1906.

- 425 TORGANOVA, A. [Venomous Organisms.] Meanunax: Moscow, 1973.
- 426 TWEEDIE, M.W.F. Poisonous Animals of Malaya. Singapore Publ. Hse.: Singapore, 90p., 1941.
- 427 WEBBER, H.H. and RUGGERI, G.D., editors. Food-Drugs from the Sea Proceedings. Mar. Tech. Soc.: Washington, 1974.
- 428 WHITLEY, G.P. Dangerous marine fishes. Proc. 1st Intern. Conv. Life Saving Techniques. Part III, Sci. Sect., Bull. Post Grad. Comm. Med., Univ. Sydney, Australia, 131p., 1963.
- 429 WIENS, H.J. Atoll Environment and Ecology. Yale Univ. Press: New Haven, Conn., 532p., 1962.
- 430 WORTHEN, L.R., editor. Food-Drugs from the Sea Proceedings. Mar. Tech. Soc.: Washington, 1972.
- 431 YOUNGKEN, H.W., JR., editor. Food-Drugs from the Sea Proceedings. Mar. Tech. Soc.: Washington, 1969.
- 432 ZANGGER, H. Die Vergiftungen. In, Allg. Übersicht. Mohr-Staehelin's Handbuch der inneren Medizin. 6, 381, 1919.
- 433 ZLOTKIN, E. Chemistry of animal venoms. Experientia 29, 1453, 1973.

CHAPTER III

PROTISTA

(Protozoa and Algae)

References for the toxic Protista are cited in this chapter. Protista constitute a kingdom taxon suggested for the not-quite-plant/not-quite-animal ancestors of living things. The term is used to denote those unicellular plant and animal organisms which have remained at the simple cellular grade of construction. Among the protistans are various protozoans, unicellular algae, such as the diatoms and dinoflagellates; and the multicellular algae, such as the green, brown, and red algae, often classified with the Plantae. The marine Protista are widely distributed throughout neretic waters and in the high seas from the polar oceans to the tropics. At least 80 species are known to be toxic to man and other animals. Most of these are of the order Dinoflagellata.

The literature on the algae is massive. Separating marine from fresh-water algae also presents a problem. However, we have included most of the citations that we felt would be of interest to toxinologists, and we suggest, if additional information on algae is needed, that the reader consult the fine review of Schwimmer and Schwimmer (1968) and the several updates.

In general, when the term paralytic shellfish poisoning, mussel poisoning, clam poisoning, or Gonyaulax poisoning has been used the reference will be cited in Chapter VII, but when the article also attends to a protistan, the reference will be included in this chapter. If the article deals only with a dinoflagellate bloom, and not necessarily with poisonous molluscs, the title will appear only in this chapter. In some cases, where blooms, paralytic shellfish poisoning, Gonyaulax or clam poisoning, and fish poisoning are noted, the title may also appear in Chapters III, VII, and IX. However, readers desiring titles on paralytic shellfish poisoning should first consult Chapter VII.

- 434 ABBOTT, B.C. and BALLANTINE, D. The toxin from Gymnodinium veneficum Ballantine. J. mar. Biol. Assoc. U.K. 36, 169, 1957.
- 435 ABBOTT, B. and PASTER, Z. The action of the toxins from Gymnodinium breve. In, Toxins of Animal and Plant Origin. DeVries, A. and Kochva, E. (eds.), Gordon & Breach: N.Y., Vol. 2, p. 761, 1972; see also Toxicon 8, 120, 1970 (Abst.).
- 436 ABBOTT, B. and WHITE, A. Toxigenesis in dinoflagellates. In, Toxic Dinoflagellate Blooms. (Proc. 2nd Intern. Conf.), Taylor, D.L. and Seliger, H.H. (eds.), Elsevier/North-Holland: N.Y., Vol. 1, p. 494, 1979.
- 437 ABBOTT, B.C., SIGER, A. and SPIEGELSTEIN, M. Toxins from the blooms of Gymnodinium breve. In, Proceedings of the First International Conference on Toxic Dinoflagellate Blooms. LoCicero, V.R. (ed.), Mass. Sci. Tech. Found.: Wakefield, Mass., p. 335, 1975.
- 438 ABBOTT, I.A. and WILLIAMSON, E.J. Limu—An Ethnobotanical Study of Some Edible Hawaiian Seaweeds. Pac. Trop. Botan. Garden: Kauai, p. 8, 1974.
- 439 ABEDI, Z.H. and SCOTT, P.M. Detection of toxicity of aflatoxin, sterigmatocystin and other fungal toxins by lethal action on zebra fish larvae. J. Assoc. Off. anal. Chem. 52, 963, 1969.
- 440 ADACHI, R. Studies on a dinoflagellate Peridinium polonicum Woloszynska. I. The structure of the skeleton. J. Fac. Fish. Prefect Univ. Mie 6, 317, 1965.
- 441 ADACHI, R. Occurrence of toxic bivalves in association with the bloom of Gonyaulax sp. in Owase Bay. Nihon Suisan-Gakkai Shi 42, 671, 1976.
- 442 ADACHI, R. and FUKUYO, Y. The thecal structure of a marine dinoflagellate Gambierdiscus toxicus gen. et sp. Nov. collected in a ciguatera-endemic area. Bull. Jpn. Soc. scient. Fish. 45, 67, 1979.
- 443 ADAMS, H.J., BLAIR, M.R., JR. and TAKMAN, B.H. The local anesthetic activity of saxitoxin alone and with vasoconstrictor and local anesthetic agents. Arch. intern. Pharmacodyn. Therap. 224, 275, 1976.
- 444 ADAMS, J.A., SEATON, D.D., BUCHANON, J.B. and LONG-BOTTOM, M.R. Biological observations associated with the toxic phytoplankton bloom off the east coast. Nature 220, 24, 1968.
- 445 AGUILAR-SANTOS, G. and DOTY, M.S. Chemical studies on three species of the marine algal species Caulerpa. In, Drugs from the Sea. Freudenthal, H.D. (ed.), Mar. Tech. Soc.: Washington, p. 173, 1968.
- 446 AIYAR, R.G. Mortality of fish off the Madras coast in June, 1935. Curr. Sci. (India) 4, 488, 1936.
- 447 AKIBA, T. [Study of poisons of Venerupis semidecussata and Ostrea gigas.] Nihon Iji Shimpō (1078), 1077, 1943.
- 448 AKIBA, T. [Study of poisoning by Venerupis semidecussata and Ostrea gigas and their poisonous substances.] Nissin Igaku 36, 1, 1949.
- 449 AKIBA, T. Food poisoning due to oysters and baby clams in Japan, and toxicological effects of the toxic substance. 10th Pac. Sci.

- Congr., Honolulu, p. 446, 1961 (Abst.).
- 450 AKIBA, T. and HATTORI, Y. Food poisoning caused by eating asari (*Venerupis semidecussata*) and oyster (*Ostrea gigas*) and studies on the toxic substance, venerupin. Jpn. J. exp. Med. 20, 271, 1949.
- 451 ALAM, M. Physiological and chemical studies on *Gymnodinium breve* Davis toxin. Toxicon 10, 163, 1972.
- 452 ALAM, M., SASNER, J.J., JR. and IKAWA, M. Isolation of *Gymnodinium breve* toxin from Florida red tide water. Toxicon 11, 201, 1973.
- 453 ALAM, M., IKAWA, M., SASNER, J.J., JR. and SAWYER, P.J. Purification of *Aphanizomenon flos-aquae* toxin and its chemical and physiological properties. Toxicon 11, 65, 1973.
- 454 ALAM, M., TRIEFF, N.M., RAY, S.M. and HUDSON, J.E. Isolation and partial characterization of toxins from dinoflagellate *Gymnodinium breve* Davis. J. pharm. Sci. 64, 865, 1975.
- 455 ALDRICH, D.V. Photoautotrophy in *Gymnodinium breve* Davis. Science 137, 988, 1962.
- 456 ALDRICH, D. and WILSON, W. The effect of salinity on growth of *Gymnodinium breve* Davis. Biol. Bull. 119, 571, 1960.
- 457 ALDRICH, D.V., RAY, S.M. and WILSON, W.B. *Gonyaulax monilata*: population growth and development of toxicity in cultures. J. Protozool. 14, 636, 1967.
- 458 ALLAN, J. Shellfish poisoning. Aust. Mus. Mag. 5, 393, 1935.
- 459 ALLAN, J. Poisonous shellfish. Med. J. Aust. (2), 554, 1935.
- 460 ALTER, A.J. Studies show poison in some shellfish year-round. Alaska's Hlth. 11, 1, 1954.
- 461 AMERICAN PUBLIC HEALTH ASSOCIATION. Recommended Procedures for the Examination of Sea Water and Shellfish. 4th edit., Am. Pub. Hlth. Assoc.: Washington, 1970.
- 462 ANDERSON, D.M. and MOREL, F.M.M. Toxic dinoflagellate blooms in the Cape Cod region of Massachusetts. In, Toxic Dinoflagellate Blooms. (Proc. 2nd Intern. Conf.), Taylor, D.L. and Seliger, H.H. (eds.), Elsevier/North-Holland: N.Y., Vol. 1, p. 145, 1979.
- 463 ANDERSON, D.M. and WALL, D. Potential importance of benthic cysts of *Gonyaulax tamarensis* and *G. excavata* in initiating toxic dinoflagellate blooms. J. Phycol. 14, 224, 1978.
- 464 ANDERSON, L.S. Toxic shellfish in British Columbia. Am. J. pub. Hlth. 50, 71, 1960.
- 465 ANISIMOV, M.M., PROKOFIEVA, N.G., KOROTKIKH, L.Y., KAPUSTINA, I.I. and STONIK, V.A. Comparative study of cytotoxic activity of triterpene glycosides from marine organisms. Toxicon 18, 221, 1980.
- 466 ANON. Propriétés vénéneuses des moules. J. Pharm. Chim., Paris 187, 298, 1871.
- 467 ANON. Fish poisons. "Notes and comments." U.S. Nav. med. Bull. 20, 466, 1924.
- 468 ANON. Shellfish poisoning. Week. Bull. Oregon Bd. Hlth. 20, 1, 1942.

- 469 ANON. Shellfish poisoning occurs rarely in British Columbia. Can. Fish. Weekly 8, 231, 1942.
- 470 ANON. The dinoflagellates, their distribution, occurrence, and toxicity. U.S. Eng. Div., Mem. Rept. Ser. (TSEAA - 691 - 30), 1947.
- 471 ANON. Red tide studies. U. Miami, 117p., 1954.
- 472 ANON. Tests show clams and mussels are poisonous in some cases. Alaska's Hlth. 12, 3, 1955.
- 473 ANON. Experimental paralytic shellfish poisoning. Nutr. Rev. 24, 127, 1966.
- 474 ANON. Poisoned mussels. Nature 218, 1000, 1968.
- 475 ANON. Mussels not for eating. Nature 220, 13, 1968.
- 476 ANON. Poisonous red tide. New Scientist 38, 57, 1968.
- 477 ANON. The green mussel mystery. Sciences 9, 30, 1969.
- 478 ANON. Structure of saxitoxin. BioScience 22, 311, 1972.
- 479 ANON. Red tide research flows on. BioScience 26, 223, 1976.
- 480 ANON. Report of the World Health Organization expert consultation on paralytic shellfish poisoning. Meeting, Wld. Hlth. Org., West Berlin, Dec. 5-8, 1978.
- 481 ARNOLD, H.L. and BONNET, D.D. Swimmers' itch: its first appearance in Hawaii. Proc. Hawaii Acad. Sci. 25, 4, 1950.
- 482 ARNOLD, H.L., GRAUER, F.H. and CHU, G.W.T.C. Sea weed dermatitis apparently caused by a marine alga. Clinical observations. Proc. Hawaii Acad. Sci., 34th Ann. Meet., p. 18, 1959.
- 483 ASANO, M. Poisoning from ingestion of the brown alga, Nemacystus decipiens. Bull. Tohoku Branch Jpn. Soc. scient. Fish. 24, 3, 1973.
- 484 ASANO, M. and ITOH, M. Are oysters edible during the summer months? Tohoku J. agric. Res. 12, 239, 1961.
- 485 ASANO, M., TAKAYANAGI, F. and FURUHARA, Y. Studies on fish and shellfish toxins. II. Callistin poisoning in the vicinity of Morimachi, Hokkaido. J. Hokkaido fish. Sci. Inst. 7, 26, 1950.
- 486 ASSOC. OFF. AGRIC. CHEM. Paralytic shellfish poison, biological method (20). In, Official Methods of Analysis of the Association of Official Agricultural Chemists. 10th edit., Washington, p. 305, 1970.
- 487 AUDEBERT, C. and LAMOUREUX, P. Eczema professionnel du marin pêcheur par contact de bryozoaires in Baie de Seine (premiers cas français 1975-1977). Ann. Derm. Venereol. (Paris) 105, 187, 1978.
- 488 AVARIA, S. Red tides off the coast of Chile. In, Toxic Dinoflagellate Blooms. (Proc. 2nd Intern. Conf.), Taylor, D.L. and Seliger, H.H. (eds.), Elsevier/North Holland: N.Y., Vol. 1, p. 161, 1979.
- 489 AZIZ, K. Diarrhea toxin obtained from a waterbloom-producing species, Microcystis aeruginosa Kutz. Science 183, 1206, 1974.
- 490 BADEN, D.G. Metabolism and toxinology of the marine

- dinoflagellate, Gymnodinium breve. Dissertation, Univ. Miami, 1977.
- 491 BADEN, D.G. and MENDE, T.J. Glucose transport and metabolism by Florida's red tide, Gymnodinium breve. Phytochemistry 17, 1333, 1978.
- 492 BADEN, D.G., MENDE, T.J. and BLOCK, R.E. Two similar toxins isolated from Gymnodinium breve. In, Toxic Dinoflagellate Blooms. (Proc. 2nd Intern. Conf.), Taylor, D.L. and Seliger, H.H. (eds.), Elsevier/North-Holland: N.Y., Vol. 1, p. 327, 1979.
- 493 BAGNIS, R. À propos de quelques cas d'intoxications par des mollusques du genera "Benities" dans une île de la Société. Bull. Soc. Path. exot. 60, 580, 1967.
- 494 BAGNIS, R. Contribution à l'étude de l'ichtyotoxisme en Polynésie française. Rev. intern. Océanogr. méd. 6, 89, 1967.
- 495 BAGNIS, R. Toxicity of the surgeon-fishes. Bull. Jpn. Soc. scient. Fish. 37, 724, 1971.
- 496 BAGNIS, R., CHANTEAU, S. and YASUMOTO, T. Un agent étiologique vraisemblable de la ciguatera. C.R. Acad. Sci. Ser. D 285, 105, 1977.
- 497 BAGNIS, R., CHANTEAU, S. and YASUMOTO, T. Signification des toxines présentes dans les amas biodétriques recouvrant les substrats coralliens morts. Bull. Soc. Path. exot. 70, 320, 1977.
- 498 BAGNIS, R., CHANTEAU, S. and YASUMOTO, T. Découverte d'un agent étiologique vraisemblable de la ciguatera. C.R. hebdom. Séanc. Acad. Sci. 28, 105, 1977.
- 499 BAGNIS, R., CHANTEAU, S. and YASUMOTO, T. Mise en évidence d'un dinoflagelle responsable en puissance de la ciguatera. Rev. intern. Océanogr. méd. 45, 29, 1977.
- 500 BAGNIS, R., CHANTEAU, S. and YASUMOTO, T. Presence in a dinoflagellate of toxins responsible for ciguatera. Rev. intern. Oceanogr. Med. 45, 29, 1977.
- 501 BAGNIS, R., DENIZOT, M., DROLLET, J. and LAIGRET, J. Biotoxines ciguaterigènes en Polynésie française. Rev. Inst. Océanogr. méd. 35, 213, 1974.
- 502 BAGNIS, R., HURTEL, J.M., FUKUYO, Y., INOUE, A. and YASUMOTO, T. Quelques aspects morphologiques et biologiques du dinoflagelle responsable probable de la ciguatera. C.R. hebdom. Séanc. Sci., Paris, Ser. D 289, 639, 1979.
- 503 BAGNIS, R., BERGLUND, F., ELIAS, P.S. et al. Problems of toxicants in marine food products. 1. Marine biotoxins. Bull. Wld. Hlth. Org. 42, 69, 1970.
- 504 BAGNIS, R., CHANTEAU, S., CHUNGUE, E. et al. Origins of ciguatera fish poisoning: a new dinoflagellate Gambierdiscus toxicus Adachi and Fukuyo, definitively involved as a causal agent. Toxicon 18, 199, 1980.
- 505 BAGNIS, R., HURTEL, J.M., CHANTEAU, S. et al. The dinoflagellate Gambierdiscus toxicus Adachi and Fukuyo: a probable cause of ciguatera. C.R. Acad. Sci. Ser. D 289, 671, 1979.
- 506 BAKER, P.F. and RUBINSON, K.A. Chemical modification of crab nerves can make them insensitive to the local anaesthetics

tetrodotoxin and saxitoxin.
Nature 257, 412, 1975.

- 507 BAKUS, G.J. An ecological hypothesis for the evolution of toxicity in marine organisms. In, Toxins of Animal and Plant Origin. DeVries, A. and Kochva, E. (eds.), Gordon & Breach: N.Y., p. 57, 1971.
- 508 BALLANTINE, D. Two new marine species of Gymnodinium isolated from the Plymouth area. J. mar. Biol. Assoc. U.K. 35, 467, 1956.
- 509 BALLANTINE, D. and ABBOTT, B.C. Toxic marine flagellates, their occurrence and physiological effects on animals. J. gen. Microbiol. 16, 274, 1957.
- 510 BALLANTINE, D. and SMITH, E.M. Observations on blooms of the dinoflagellate Gyrodinium aureolum Hulbert in the River Conway and its occurrence along the North Wales coast. Br. Phycol. J. 8, 233, 1973.
- 511 BANNARD, R.A. and CASSELMAN, A.A. Clam poison. II. A—Enrichment of the toxin in clam poison tailings by a heavy paper technique. B—Applicability of the technique to large quantities of tailings. Def. Res. Chem. Labs. Can. Rept. (346), 1961.
- 512 BANNARD, R.A.B. and CASSELMAN, A.A. Clam poison. III. Purification of clam poison residues of low toxicity by a heavy-paper technique. Can. J. Chem. 39, 1879, 1961.
- 513 BANNARD, R.A.B. and CASSELMAN, A.A. Clam poison. IV. Studies on the nitration of clam poison and model compounds. Def. Res. Chem. Labs. Can. Rept. (358), 1961.
- 514 BANNARD, R.A.B. and CASSELMAN, A.A. Clam poison. III. Paper electrophoresis of clam poison. Can. J. Chem. 40, 1649, 1962.
- 515 BANNARD, R.A.B., GREENHALGH, R. and CASSELMAN, A.A. Clam poison. V. Hydrolysis of clam poison under mild conditions. Def. Res. Chem. Labs. Can. Rept. (358), 1961.
- 516 BANNER, A.H. A dermatitis-producing algae in Hawaii: preliminary report. Hawaii med. J. 19, 33, 1959.
- 517 BANNER, A.H. Marine toxins from the Pacific, I. Advances in the investigation of fish toxins. In, Animal Toxins. Russell, F.E. and Saunders, P.R. (eds.), Pergamon: Oxford, p. 157, 1967.
- 518 BANNER, A.H. The biological origin and transmission of ciguatera. In, Bioactive Compounds from the Sea. Humm, H.J. and Lane, C.E. (eds.), Marcel Dekker: N.Y., p. 15, 1974.
- 519 BANNER, A.H. Ciguatera: a disease from coral fish. In, Biology and Geology of Coral Reefs. Jones, O.A. and Endean, R. (eds.), Academic: N.Y., Vol. 3, p. 177, 1976.
- 520 BANNER, A.H. Hazardous marine animals. In, Forensic Medicine. Tedeschi, C.G., Eckert, W.G., and Tedeschi, W.G. (eds.), W.B. Saunders: Philadelphia, p. 1429, 1977.
- 521 BARCHI, R.L. and MURPHY, L.E. Size characteristics of the solubilized sodium channel saxitoxin binding site from mammalian sarcolemma. Biochim. biophys. Acta 597, 391, 1980.

- 522 BARCHI, R.L. and WEIGELE, J.B. Characteristics of saxitoxin binding to the sodium channel of sarcolemma isolated from rat skeletal muscle. J. Physiol. 295, 383, 1979.
- 523 BARRETT, B.E. The 1972 red tide in New Hampshire. In, Proceedings of the First International Conference on Toxic Dinoflagellate Blooms. LoCicero, V.R. (ed.), Mass. Sci. Tech. Found.: Wakefield, Mass., p. 473, 1975.
- 524 BASLOW, M.H. Marine Pharmacology. Williams & Wilkins: Baltimore, 1969.
- 525 BATES, H.A. and RAPOPORT, H. A chemical assay for saxitoxin, the paralytic shellfish poison. J. agric. food Chem. 23, 237, 1975.
- 526 BATES, H.A., KOSTRIKEN, R. and RAPOPORT, H. A chemical assay for saxitoxin. Improvements and modifications. J. agric. food Chem. 26, 252, 1978.
- 527 BATES, H.A., KOSTRIKEN, R. and RAPOPORT, H. The occurrence of saxitoxin and other toxins in various dinoflagellates. Toxicon 16, 595, 1978.
- 528 BAYNE, B.L., WIDDOWS, J. and NEWELL, R.J.E. Physiological measurements on estuarine bivalve molluscs in the field. In, Biology of Benthic Marine Organisms. Keegan, B.F., Ceidigh, P.O. and Boaden, P.J.S. (eds.), Pergamon: N.Y., p. 57, 1977.
- 529 BAYNE, B.L., LIVINGSTONE, B.R., MOORE, M.N. and WIDDOWS, J. A cytochemical and biochemical index of stress in Mytilus edulis L. Mar. Pollut. Bull. 7, 221, 1975.
- 530 BEIN, S.J. A study of certain chromogenic bacteria isolated from "red tide" water with a description of a new species. Bull. mar. Sci. Gulf Caribb. 4, 110, 1954.
- 531 BENDIEN, W.M. and SOMMER, H. Purification of paralytic shellfish poison by filtration through active charcoal. Proc. Soc. exp. Biol. 48, 715, 1941.
- 532 BERGMANN, F. Studies on the homogeneity of prymnesin, a toxin isolated from Prymnesium parvum Carter. Toxicon 3, 33, 1965.
- 533 BERGMANN, F. Studies on the growth of Prymnesium parvum Carter (Chrysomonadina) and on the formation of its toxin (prymnesin). Experientia 22, 790, 1966.
- 534 BERGMANN, F., PARNAS, I. and REICH, K. Observations on the mechanism of action and on the quantitative assay of ichthyotoxin from Prymnesium parvum Carter. Toxicol. appl. Pharmacol. 5, 637, 1963.
- 535 BERGMANN, F., PARNAS, I. and REICH, K. Pharmacological effects of the ichthyotoxin of the phytoflagellate Prymnesium parvum. Biochem. Pharmacol. Conf. Issue, p. 126, 1963; see also Bull. Res. Council, Israel 10E, (3-4), 1963.
- 536 BERGMANN, F., PARNAS, I. and REICH, K. The action of toxin of Prymnesium parvum Carter on the guinea-pig ileum. Br. J. Pharmacol. 22, 47, 1964.
- 537 BERGMANN, W., MC LEAN, M.J. and LESTER, D. Contributions to the study of marine products, XIII. Sterols from various marine invertebrates. J. org. Chem. 8, 271, 1943.
- 538 BERKELEY, C. Toxicity of plankton to Critispira inhabiting the

- crystalline style of a mollusk. Science 135, 664, 1962.
- 539 BERMAN, L. Formation of toxic principles in concentrated cell suspensions of Prymnesium parvum. Thesis, Hebrew Univ., Jerusalem, 1960.
- 540 BINFORD, J.S., JR., MARTIN, D.F. and PADILLA, G.M. Hemolysis induced by Prymnesium parvum toxin. Calorimetric studies. Biochem. biophys. Acta 291, 156, 1973.
- 541 BISHOP, C., ANET, E. and GORHAM, P. Isolation and identification of the fast-death factor in Microcystis aeruginosa NRC-1. Can. J. Biochem. Physiol. 37, 453, 1959.
- 542 BLANC, M.H., ZWAHLEN, A. and ROBERT, M. Symptoms of shellfish poisoning. New Engl. J. Med. 296, 287, 1977.
- 543 BLOGOSLAWSKI, W.J. Field studies on ozone inactivation of a Gymnodinium breve toxin. Environ. Lett. 9, 209, 1975.
- 544 BLOGOSLAWSKI, W.J. and STEWART, M.E. Paralytic shellfish poison in Spisula solidissima: anatomical location and ozone detoxification. Mar. Biol. 45, 261, 1978.
- 545 BOALCH, G.T. The dinoflagellate bloom on the coast of South West England, August-September 1978. J. mar. Biol. Assoc. U.K. 59, 515, 1979.
- 546 BODEANU, N. and USURELU, M. Dinoflagellate blooms in Romanian Black Sea coastal waters. In, Toxic Dinoflagellate Blooms. (Proc. 2nd Intern. Conf.), Taylor, D.L. and Seliger, H.H. (eds.), Elsevier North-Holland N.Y., p. 151, 1979.
- 547 BOLTON, B.L., BERGNER, A.D., O'NEILL, J.J. and WAGLEY, P.F. Effect of a shellfish poison on end-plate potentials. Bull. Johns Hopkins Hosp. 105, 233, 1959.
- 548 BOND, R.M. Management of PSP in Canada. In, Proceedings of the First International Conference on Toxic Dinoflagellate Blooms. LoCicero, V.R. (ed.), Mass. Sci. Tech. Found.: Wakefield, Mass., p. 473, 1975.
- 549 BOND, R.M. and MEDCOF, J.C. Epidemic shellfish poisoning in New Brunswick. Dept. Fish., Fish. Inspect. Lab., St. Andrews, N.B., 1957.
- 550 BOND, R.M. and MEDCOF, J.C. Epidemic shellfish poisoning in New Brunswick. In, Conference on Shellfish Toxicology. U.S. Public Hlth. Serv., Spec. Publ. (25), 1957.
- 551 BOND, R.M. and MEDCOF, J.C. Epidemic shellfish poisoning in New Brunswick, 1957. Can. med. Assoc. J. 79, 19, 1958.
- 552 BONNET, P. and PHILLIPS, J.B. Red water, its cause and occurrences. Calif. Fish Game 24, 55, 1938.
- 553 BONNEVIE, P. Etiologico-pathogenetical experiences of professional skin diseases with a view to their prophylaxis. Acta Derm-venereol. 20, 632, 1939.
- 554 BONNEVIE, P. Fishermen's "Dogger bank itch" an allergic contact-eczema due to the coralline Alcyonidium hirsutum, the "sea-chervil." Acta Allergol. 1, 40, 1948.
- 555 BORDNER, J., THIESSEN, W.E., BATES, H.A. and RAPOPORT, H. The structure of a crystalline derivative of saxitoxin. The

- structure of saxitoxin. J. Am. chem. Soc. 97, 6008, 1975.
- 556 BOURNE, N. Paralytic shellfish poison in sea scallops Placopecten magellanicus Gmelin. J. Fish. Res. Bd. Can. 22, 1137, 1965.
- 557 BOYER, G.L. Chemical investigations of the toxins produced by marine dinoflagellates. Dissertation, Univ. Wisconsin, 1980.
- 558 BOYER, G.L., SCHANTZ, E.J. and SCHNOES, H.K. Characterization of 11-hydroxy-saxitoxin sulfate, a major toxin in scallops exposed to blooms of the poisonous dinoflagellate Gonyaulax tamarensis. Chem. Commun. 20, 889, 1978.
- 559 BOYER, G.L., MOSSER, J.L., SCHNOES, H.K. and SCHANTZ, E.J. The structure of a saxitoxin analog produced by Gonyaulax tamarensis. Fed. Proc. 37, 1825, 1978.
- 560 BRAARUD, A.T. Marine plankton-alger som årsak til biskjellforgiftning og andre skader. Naturen 8, 451, 1963.
- 561 BRAARUD, T. A red water organism from Walvis Bay. Galathea Rept. (1), 137, 1957.
- 562 BRONGERSMA-SANDERS, M.B. The Importance of Upwelling Water to Vertebrate Paleontology and Oil Geology. N.B. Noord-Hollandsche Oitzebiers Maateschappij: Amsterdam, 112p., 1948.
- 563 BRONGERSMA-SANDERS, M. Mass mortality in the sea. In, Treatise on Marine Ecology and Paleocology. Hedgpeth, J.W. (ed.), Waverly Press: Baltimore, vol. 1, p. 67, 1957.
- 564 BRUSSON, J. Le pétrole du "Torrey Canyon" en mer. Penn ar Bed 6, 79, 1967.
- 565 BRYDON, G.A., MARTIN, D.F. and OLANDER, W.K. Laboratory culturing of the Florida red-tide organism, Gymnodinium breve. Environ. Lett. 1, 235, 1971.
- 566 BUCKLEY, L.J. Chemical studies on the toxins of the marine dinoflagellate Gonyaulax tamarensis and their analysis by thin-layer chromatography-fluorometry. Dissertation, Univ. New Hampshire, 1975.
- 567 BUCKLEY, L.J., IKAWA, M. and SASNER, J.J., JR. Purification of two Gonyaulax tamarensis toxins from clams (Mya arenaria) and the identification of saxitoxin. In, Proceedings of the First International Conference on Toxic Dinoflagellate Blooms. LoCicero, V.R. (ed.), Mass. Sci. Tech. Found.: Wakefield, Mass., p. 423, 1974.
- 568 BUCKLEY, L.J., OSHIMA, Y. and SHIMIZU, Y. Construction of a paralytic shellfish toxin analyzer and its application. Anal. Biochem. 85, 157, 1978.
- 569 BULL, R.J. and TREVOR, A.J. Saxitoxin, tetrodotoxin and the metabolism and cation fluxes in isolated cerebral tissues. J. Neurochem. 19, 999, 1972.
- 570 BURKE, J.M., MARICHISOTTO, J., MC LAUGHLIN, J.J.A. and PROVASOLI, L. Analysis of the toxin produced by Gonyaulax catenella in axenic culture. Ann. Rev. N.Y. Acad. Med. Sci. 90, 837, 1960.
- 571 BURRESON, B.J., CHRISTOPHERSEN, C. and SCHEUER, P.J. Co-occurrence of a terpenoid isocyanide-formamide pair in the

- marine sponge Halichondria sp. J. Am. chem. Soc. 97, 201, 1975.
- 572 BURRESON, B.J., MOORE, R.E. and ROLLER, P.P. Volatile halogen compounds in the alga Asparagopsis toxiformis (Rhodophyta). J. agric. food Chem. 24, 856, 1976.
- 573 CAMPBELL, H., EDWARDS, O. and KOLT, R. Synthesis of noranatoxin-A and anatoxin-A. Can. J. Chem. 55, 1372, 1977.
- 574 CAMPBELL, J.E. Analytical procedures for paralytic shellfish poison. In, Proceedings of the Joint Sanitation Seminar on North Pacific Clams. Felsing, W.A., Jr. (ed.), Govt. Print. Off.: Washington, p. 17, 1965.
- 575 CARDELLINA, J.H., II, MARNER, F. and MOORE, R.E. Seaweed dermatitis: structure of lyngbyatoxin A. Science 204, 193, 1979.
- 576 CARLÉ, J.S. En undersøgelse af indholdsstoffer i Bryozoa. Dept. Chem., Univ. Copenhagen: Copenhagen, Denmark, 95p., 1977.
- 577 CARLÉ, J.S. Marin naturstoffkemi, biologisk aktive forbindelser. Thesis, Univ. Copenhagen, 1980.
- 578 CARLÉ, J.S. and CHRISTOPHERSEN, C. Dogger bank itch. The allergen is (2-hydroxyethyl) dimethylsulfoxonium ion. J. Am. chem. Soc. 102, 5107, 1980.
- 579 CARLÉ, J.S. and CHRISTOPHERSEN, C. Dogger bank itch. 2. An allergic contact dermatitis. Bull. Soc. Chimie Belge 89, 1087, 1980.
- 580 CARMICHAEL, W. and GORHAM, P. Factors influencing the toxicity and animal susceptibility of Anabaena flos-aquae (Cyanophyta) blooms. J. Phycol. 13, 97, 1977.
- 581 CARMICHAEL, W. and GORHAM, P. Anatoxins from clones of Anabaena flos-aquae isolated from lakes of western Canada. Mitt. Int. Ver. Theor. Agnew. Limnol. 21, 285, 1978.
- 582 CARMICHAEL, W., BIGGS, D. and GORHAM, P. Toxicology and pharmacological action of Anabaena flos-aquae toxin. Science 187, 342, 1975.
- 583 CARMICHAEL, W.W., BIGGS, D.F. and PETERSON, M.A. Pharmacology of anatoxin-a, produced by the freshwater cyanophyte Anabaena flos-aquae. Toxicon 17, 229, 1979.
- 584 CARTER, N. New or interesting algae from brackish water. Arch. Protistenk. 90, 1, 1938.
- 585 CASSELMAN, A.A., GREENHALGH, R., BROWNELL, H.H. and BANNARD, R.A.B. Clam poison. I. The paper chromatographic purification of clam poison dihydrochloride. Can. J. Chem. 38, 1277, 1960.
- 586 CASSIE, V. A red water bloom of rotifers in Cook Strait, New Zealand. Nature 186, 328, 1960.
- 587 CATTERALL, W.A. Neurotoxins as allosteric modifiers of voltage-sensitive sodium channels. In, Advances in Cytopharmacology. Ceccarelli, B. and Clementi, F. (eds.), Raven Press: N.Y., vol. 3, p. 303, 1979.
- 588 CHAMBERS, J.S. and MAGNUSSON, H.W. Seasonal variations in toxicity of butter clams from selected Alaska beaches. Spec. Sci. Rept., U.S. Fish Wildl. Serv., Fish. (53), 19p., 1950.
- 589 CHAMBERS, J.S., CARLSON, C.J. and MAGNUSSON, H.W. Technological studies on the Alaska

- butter clam, Saxidomus giganteus, IV. Variability of beds within individual bays. Fish. Exp. Comm. Alaska, Fish Prod. Lab., Ketchikan, Tech. Rept. (K-39), 1951.
- 590 CHAMBERS, J.S., CRAVEN, H.J. and GALERMAN, D.M. Technological studies on the Alaska butter clam: additional studies of the seasonal variations in toxicity of butter clams from selected beaches. Fish. Exp. Comm. Alaska, Fish Prod. Lab., Ketchikan, Tech. Rept. (K-43), 1952.
- 591 CHAMBERS, J.S., CARLSON, C.J., MAGNUSSON, H.W., BAKER, A. and HAGEVID, W.A. Technological studies on the Alaska butter clam, Saxidomus giganteus, IV. Survey of Alaska clam beds. Fish. Exp. Comm. Alaska, Fish Prod. Lab., Ketchikan, Tech. Rept. (K-41), 1951.
- 592 CHARNOT, A. La toxicologie au Maroc. Mém. Soc. Sci. nat. Maroc (47), 86, 1945.
- 593 CHATTON, E. Classe des dinoflagellés ou peridians. In, Traité de Zoologie: anatomie, systématique, biologie, Vol. I, Phylogénie; protozoaires, généralités, flagellés. Grasse, P.P. (ed.), Masson & Cie: Paris, part I, p. 309, 1952.
- 594 CHEW, P. A tentative method for the prediction of the Florida red tide outbreaks. Bull. mar. Sci. Gulf Caribb. 6, 292, 1956.
- 595 CHEYMOL, J. De dos sustancias biomarinas inhibidoras neuromusculares: tetrodotoxina y saxitoxina. Arch. Fac. Med. Madrid 8, 151, 1963.
- 596 CHEYMOL, J., BOURILLET, F., LONG, P. and ROCH-ARVEILLER, M. Action paralysante neuromusculaire de la saxitoxine. Arch. intern. Pharmacodyn. 174, 393, 1968.
- 597 CHO, C.H. Mass mortalities of oyster due to red tide in Jinhae Bay in 1978. Bull. Korean fish. Soc. 12, 27, 1979.
- 598 CHU, G.W.T.C. First report of the presence of a dermatitis-producing marine larval schistosome in Hawaii. Science 115, 151, 1952.
- 599 CHU, G.W.T.C. Sea weed dermatitis apparently caused by a marine alga. Laboratory investigations. Proc. Hawaiian Acad. Sci. 34th Ann. Meet., p. 19, 1959.
- 600 CHUNGUE, E., CHANTEAU, S., HURTEL, J.M. and BAGNIS, R. Étude toxicologique de plusieurs espèces d'algues benthoplanctoniques des biotopes ciguaterigènes cultivées en milieu artificiel non axénique. Rev. intern. Océanogr. méd. 35, 35, 1979.
- 601 CIMINO, G., DE STEFANO, S., FENICAL, W. et al. Zonaroid acid from the brown seaweed Dictyopteris undulata (=zonarioides). Experientia 31, 1250, 1975.
- 602 CLAPHAM, W.F. and EVANS, M.H. Reduced sodium exchange in muscle exposed to "paralytic shellfish poison." J. Physiol. 173, 24, 1964.
- 603 CLARK, R.B. Biological causes and effects of paralytic shellfish poisoning. Lancet (2), 770, 1968.
- 604 CLARK, W.G. and LIPTON, J.M. Complementary lowering of the behavioural and physiological thermoregulatory set-points by tetrodotoxin and saxitoxin in the cat. J. Physiol. 238, 181, 1974.
- 605 CLELAND, J.B. Injuries and diseases in Australia attributable to

- animals (other than insects). Med. J. Aust. (2), 157, 1932.
- 606 CLELAND, J.B. Injuries and diseases in Australia attributable to animals.... Med. J. Aust. (2), 313, 1942.
- 607 CLELAND, J.B. and SOUTHCOTT, R.V. Injuries to Man from Marine Invertebrates in the Australian Region. Protista. Commonwealth Aust.: Canberra, 1965.
- 608 CLEM, J.D. Toxic dinoflagellates, shellfish and public health. In, Toxic Dinoflagellate Blooms. (Proc. 2nd Intern. Conf.), Taylor, D.L. and Seliger, H.H. (eds.), Elsevier/North-Holland: N.Y., vol. 1, p. 1, 1979.
- 609 CLEMONS, G.P., PHAM, D.V. and PINION, J.P. Insecticidal activity of Gonyaulax (Dinophyceae) cell powders and saxitoxin to the German cockroach. J. Phycol. 16, 305, 1980.
- 610 CLEMONS, G.P., PINION, J.P., BASS, E. et al. A hemolytic principle associated with the red-tide dinoflagellate Gonyaulax monilata. Toxicon 18, 323, 1980.
- 611 COHEN, S.G. and REIF, C.B. Cutaneous sensitization to blue-green alga. J. Allergy 24, 452, 1953.
- 612 COLBY, M. Poisonous marine animals in the Gulf of Mexico. Proc. Trans. Texas Acad. Sci. 26, 62, 1943.
- 613 COLLINS, M. Algal toxins. Microbiol. Rev. 42, 725, 1978.
- 614 CONNELL, C.H. and CROSS, J.B. Mass mortality of fish associated with the protozoan Gonyaulax in the Gulf of Mexico. Science 112, 359, 1950.
- 615 COOPER, L.H.N. Scientific consequences of the wreck of the "Torrey Canyon." Helgolaender wiss. Meeresunters. 17, 340, 1968.
- 616 COOPER, M.J. Ciguatera and other marine poisoning in the Gilbert Islands. Pac. Sci. 18, 411, 1964.
- 617 CORNMANN, I. Retardation of Arbacia egg cleavage by dinoflagellate-contaminated sea water (red tide). Biol. Bull. 93, 205, 1947.
- 618 COVELL, W.P. and WHEDON, W.F. Effects of the paralytic shellfish poison on nerve cells. Arch. Path. 24, 411, 1937.
- 619 CRAIG, C.P. It's always the big ones that should get away. J.A.M.A. 244, 272, 1980.
- 620 CUMMINS, J.M., HIGGINS, J.E. and ROBERTSON, E.A., JR. Occurrence of ciguatera-like biotoxin(s) in shellfish from the Gulf of Mexico. Gulf Coast Shellf. Sanit. Res. Cent., Dauphin Is., Alabama, 22p., 1967.
- 621 CUMMINS, J.M., JONES, A.C. and STEVENS, A.A. Occurrence of toxic bivalve molluscs during a Gymnodinium breve "red tide." Trans. Am. fish. Soc. 100, 112, 1971.
- 622 CUMMINS, J.M., STEVENS, A.A., HUNTLEY, B.E., HILL, W.F., JR. and HIGGINS, J.E. Some properties of Gymnodinium breve toxin(s) determined bioanalytically in mice. In, Drugs from the Sea. Freudenthal, H.D. (ed.), Mar. Tech. Soc.: Washington, p. 213, 1968.
- 623 DAFNI, Z. and GIBERMAN, E. Nature of initial damage to Ehrlich ascites cells caused by Prymnesium parvum toxin. Biochim. biophys. Acta 255, 380, 1972.

- 624 DAFNI, Z. and SHILO, M. The cytotoxic principle of the phytoflagellate Prymnesium parvum. J. Cell. Biol. 28, 461, 1966.
- 625 DALE, B. and YENTSCH, C.M. Red tide and paralytic shellfish poisoning. Oceanus 21, 41, 1978.
- 626 DALE, B., YENTSCH, C.M. and HURST, J.W. Toxicity in resting cysts of the red-tide dinoflagellate Gonyaulax excavata from deeper water coastal sediments. Science 201, 1223, 1978.
- 627 D'ARRIGO, J.S. Structural characteristics of the saxitoxin receptor on nerve. J. membrane Biol. 29, 231, 1976; see also Fed. Proc. 35, 403, 1976 (Abst.).
- 628 DASSOW, J.A. Processing detoxification. In, Proceedings of the Joint Sanitation Seminar on North Pacific Clams. Felsing, W.A., Jr. (ed.), Govt. Print. Off.: Washington, p. 12, 1965.
- 629 DAVIS, C.C. Gymnodinium brevis sp. nov. A cause of discolored water and animal mortality in the Gulf of Mexico. Botan. Gaz. 109, 358, 1948.
- 630 DAVIS, C.C. The Marine and Fresh-Water Plankton. Mich. State Univ. Press: E. Lansing, Mich., 562p., 1955.
- 631 DAWSON, E.Y. Changes in Palmyra Atoll and its vegetation through the activities of man, 1913 to 1958. Pacif. Naturalist 1, 1, 1959.
- 632 DAWSON, E.Y., ALEEM, A.A. and HALSTEAD, B.W. Marine algae from Palmyra Island with special reference to the feeding habits and toxicology of reef fishes. Allan Hancock Found. Publ. Occ. Pap. 17, 1, 1955.
- 633 DE MENDIOLA, B.R. Red tide along the Peruvian coast. In, Toxic Dinoflagellate Blooms. (Proc. 2nd Intern. Conf.), Taylor, D.L. and Seliger, H.H. (eds.), Elsevier/North-Holland: N.Y., vol. 1, p. 183, 1979.
- 634 DEMINA, N.S. and MAL'DOV, D.G. [The toxins of some marine algae (Pyrrophyta).] Izv. An. S.S.S.R. (Biol.), (2), 254, 1980.
- 635 DE SOUSA E SILVA, E. Some observations on marine dinoflagellate cultures. Notas estud. Inst. Biol. Maritima, Lisbon 21, 1, 1959.
- 636 DE SYLVA, D.P. What causes ciguatera? In, Toxicology and Occupational Medicine. Deichmann, W.B. (ed.), Elsevier/North-Holland: N.Y., p. 423, 1979.
- 637 DE SYLVA, D.P. and DEICHMANN, W.B. Toxins in the ciguatera food chain. In, Toxicology and Occupational Medicine. Deichmann, W.B. (ed.), Elsevier/North-Holland: N.Y., p. 433, 1979.
- 638 DETTBARN, W.D., HIGMAN, H.B., BARTELS, D. and PODLESKI, T. Effects of marine toxins on electrical activity and K⁺ efflux on excitable membranes. Biochim. biophys. Acta 4, 472, 1965.
- 639 DETTBARN, W.D., HIGMAN, H., ROSENBERG, P. and NACHMANSON, D. Rapid and reversible block of electrical activity by powerful marine biotoxins. Science 132, 300, 1960.
- 640 DEVLIN, J., EDWARDS, O., GORHAM, P. et al. Anatoxin-A, a toxic alkaloid from Anabaena flos-aquae NRC-44h. Can. J. Chem. 55, 1367, 1977.
- 641 DOIG, M.T., III. The growth and toxicity of the Florida red tide organisms, Gymnodinium breve.

- Dissertation, Univ. S. Florida, Tampa, Fla., 1973.
- 642 DOIG, M.T., III and MARTIN, D.F. Physical and chemical stability of ichthyotoxins produced by Gymnodinium breve. Environ. Lett. 3, 279, 1973.
- 643 DOIG, M., MARTIN, D.F. and PADILLA, G.M. Marine bioactive agents: chemical and cellular correlates. In, Marine Pharmacognosy. Action of Marine Biotoxins at the Cellular Level. Martin, D.F. and Padilla, G.M. (eds.), Academic: N.Y., p. 1, 1973.
- 644 DOMONKOS, A.N. In, Andrew's Diseases of the Skin, Clinical Dermatology. W.B. Saunders: Philadelphia, p. 95, 1971.
- 645 DOS SANTOS, P. and DE SOUSA E SILVA, E. The toxicity of Cardium edule L. and its possible relation to the dinoflagellate Prorocentrum micans Ehr. Notas estud. Inst. Biol. Maritima, Lisbon 12, 1, 1956.
- 646 DOTY, M.S. and AGUILAR-SANTOS, G. Caulerpicin, a toxic constituent of Caulerpa. Nature 211, 990, 1966.
- 647 DOTY, M.S. and AGUILAR-SANTOS, G. Transfer of toxic algal substances in the marine food chains. Pac. Sci. 24, 351, 1970.
- 648 DOWN, R.J. The medical significance of shellfish and blowfish neurotoxins (saxitoxin and tetrodotoxin) as suggested by tests in killifish (Fundulus heteroclitus). In, Food-Drugs from the Sea. Youngken, H.W. (ed.), Mar. Tech. Soc.: Washington, p. 327, 1970.
- 649 DRAGOVICH, A., KELLY, J.A., JR. and KELLY, R.D. Red water bloom of a dinoflagellate in Hillsborough Bay, Florida. Nature 207, 1209, 1965.
- 650 DROOP, M. A note on the isolation of a small marine algae and flagellates in pure culture. J. mar. Biol. Assoc. U.K. 33, 511, 1954.
- 651 DUBOS, M., SUSPERREGUI, A., DROUET, J. and NIAUSSAT, P.-M. Étude expérimentale du pouvoir sensibilisant d'Alcyonidium gelatinosum (L.) (Bryozoaire marin). I. Réactions d'hypersensibilite cutanée. Arch. de malad. profes. 41, 9, 1980.
- 652 DUBOS, M., NGUYEN, T.L., LA-MOUREAUX, P. et al. Alcyonidium gelatinosum (L.) (Bryozoaire) et réactions cutanées d'hypersensibilité, résultats préliminaires d'une étude expérimentale. Bull. Soc. Path. exot. 70, 82, 1977.
- 653 DUPUY, J.L. Isolation, culture and ecology of a source of paralytic shellfish toxin in Sequim Bay, Washington. Dissertation, Univ. Washington, 1968.
- 654 DUPUY, J.L. and SPARKS, A.K. Gonyaulax washingtonensis, its relationship to Mytilus californianus and Crassostrea gigas as a source of paralytic shellfish toxin in Sequim Bay, Washington. Proc. natn. Shellfish. Assoc. 58, 2, 1967.
- 655 DYMSZA, H., SHIMIZU, Y., RUSSELL, F.E. and GRAHAM, H.D. Poisonous marine animals. In, The Safety of Foods. Graham, H.D. (ed.), Avi Publ.: Westport, Conn., p. 625, 1980.
- 656 EDWARDS, H.I. The etiology and epidemiology of paralytic shellfish poison. J. milk food Tech. 19, 331, 1956.
- 657 ELDRED, B., STEIDINGER, K. and WILLIAMS, J. Preliminary studies

of the relation of Gymnodinium breve counts to shellfish toxicity. In, A Collection of Data in Reference to Red Tide Outbreaks During 1963. Mar. Lab., Florida Bd. Conserv.: St. Petersburg, Fla., p. 23, 1964.

- 658 ELLIS, S., SPIKES, J.J. and JOHNSON, G.L. Respiratory and cardiovascular effects of G. breve toxin in dogs. In, Toxic Dinoflagellate Blooms. (Proc. 2nd Intern. Conf.), Taylor, D.L. and Seliger, H.H. (eds), Elsevier/North-Holland: N.Y., vol. 1, p. 431, 1979.
- 659 ENDEAN, R. Marine toxins. Sci. J. (Aust.) (2), 57, 1966.
- 660 ENDEAN, R. Aspects of molluscan pharmacology. Chem. Zool. 7, 421, 1972.
- 661 ENDEAN, R. Neurotoxins occurring in marine animals from Australian waters. In, Neurotoxins. Fundamental and Clinical Advances. Chubb, I.W. and Geffen, L.B. (eds.), Adelaide Univ. Union Press: Adelaide, S. Australia, p. 57, 1979.
- 662 EVANS, M.H. Paralytic effects of "paralytic shellfish poison" on frog nerve and muscle. Br. J. Pharmacol. 22, 478, 1964.
- 663 EVANS, M.H. Cause of death in experimental paralytic shellfish poisoning (PSP). Br. J. exp. Path. 46, 245, 1965.
- 664 EVANS, M.H. Block of sensory nerve conduction in the cat by mussel poison and tetrodotoxin. In, Animal Toxins. Russell, F.E. and Saunders, P.R. (eds.), Pergamon: Oxford, p. 97, 1967; see also Toxicon 4, 295, 1967 (Abst.).
- 665 EVANS, M.H. Topical application of saxitoxin and tetrodotoxin to peripheral nerves and spinal roots in the cat. Toxicon 5, 289, 1968.
- 666 EVANS, M.H. Differences between the effects of saxitoxin (paralytic shellfish poison) and tetrodotoxin on the frog neuromuscular junction. Br. J. Pharmacol. 36, 426, 1969.
- 667 EVANS, M.H. The effects of saxitoxin and tetrodotoxin on nerve conduction in the presence of lithium ions and of magnesium ions. Br. J. Pharmacol. 36, 418, 1969.
- 668 EVANS, M.H. Mechanism of saxitoxin and tetrodotoxin poisoning. Br. med. Bull. 25, 263, 1969.
- 669 EVANS, M.H. Spinal reflexes in the cat after intravenous saxitoxin and tetrodotoxin. Toxicon 7, 131, 1969.
- 670 EVANS, M.H. Paralytic shellfish poisoning in Britain. Mar. Pollut. Bull. 1, 186, 1970.
- 671 EVANS, M.H. Comparison of the actions of saxitoxin and tetrodotoxin on the motor end-plate of frog muscle. Br. J. Pharmacol. 43, 681, 1971.
- 672 EVANS, M.H. A comparison of the biological effects of paralytic shellfish poisons from clam, mussel and dinoflagellate. Toxicon 9, 139, 1971.
- 673 EVANS, M.H. Tetrodotoxin, saxitoxin, and related substances: their applications in neurobiology. Intern. Rev. Neurobiol. 15, 83, 1972.
- 674 EVANS, M.H. Saxitoxin and related poisons: their actions on mar. and other mammals. In, Proceedings of the First International Conference on Toxic Dinoflagellate Blooms. LoCicero, V.R. (ed.),

- Mass. Sci. Tech. Found.: Wakefield, Mass., p. 337, 1975.
- 675 FABIAN, R., ABRAHAM, R., COULSTON, F. and GOLBERG, L. Carageenan-induced squamous metaplasia of the rectal mucosa in rats. Gastroenterology **65**, 265, 1973.
 - 676 FALLON, W.E. and SHIMIZU, Y. Electrophoretic analysis of paralytic shellfish toxins. J. environ. Sci. Hlth., Part A **12**, 435, 1977.
 - 677 FARIA, J.G. Um ensaio sobre o plankton, seguido de observações sobre ocorrência de plankton monotono, causando mortandade entre os peixes na Bahia do Rio de Janeiro. Thesis, J. Comm. de Rodriguez & Co.: Rio de Janeiro, 48p., 1914.
 - 678 FELSING, W.A., JR., editor. Proceedings of the Joint Sanitation Seminar on North Pacific Clams. Govt. Print. Off.: Washington, 1965.
 - 679 FINGERMAN, M., FORESTER, R.H. and STOVER, J.H., JR. Action of shellfish poison on peripheral nerve and skeletal muscle. Proc. Soc. exp. Biol. Med. **84**, 643, 1953.
 - 680 FISH, C.J. and COBB, M.C. Noxious marine animals of the central and western Pacific Ocean. U.S. Fish Wildl. Serv. Res. Rept. (36), 1954.
 - 681 FISHER, A.A. Atlas of Aquatic Dermatology. Grune & Stratton: N.Y., p. 52, 1978.
 - 682 FISHER, A.A. and ORRIS, W.L. Aquatic contact dermatitis. Cutis **12**, 687, 1978.
 - 683 FOGG, G.E., STEWART, W.D.P., FAY, P. and WALSBY, A.E. The Blue-Green Algae. Academic: N.Y., 1973.
 - 684 FONTAINE, M. Les Sciences pharmaceutiques et l'exploitations des Océans. Ann. pharm. franc. **20**, 73, 1962.
 - 685 FORSTER, G.R. Mortality of the bottom fauna and fish in St. Austell Bay and neighbouring areas. J. mar. Biol. Assoc. U.K. **59**, 517, 1979.
 - 686 FOXALL, T.L., SHOPTAUGH, N.H., IKAWA, M. and SASNER, J.A., JR. Secondary intoxication with PSP in Cancer irroratus. In, Toxic Dinoflagellate Blooms. (Proc. 2nd Intern. Conf.), Taylor, D.L. and Seliger, H.H. (eds.), Elsevier/North-Holland: N.Y., Vol. 1, p. 413, 1979.
 - 687 FRAGA, S. and SANCHEZ, F.J. A bloom of Amphidinium sp. in the Ría de Vigo (N.W. of Spain). In, Toxic Dinoflagellate Blooms. (Proc. 2nd Intern. Conf.), Taylor, D.L. and Seliger, H.H. (eds.), Elsevier/North-Holland: N.Y., Vol. 1, p. 165, 1979.
 - 688 FRASER, J.H. and LYELL, A. Dogger bank itch. Lancet **1**, 61, 1963.
 - 689 FREEBERG, L.R., MARSHALL, A. and HEYL, M. Interrelationships of Gymnodinium breve (Florida red tide) within the phytoplankton community. In, Toxic Dinoflagellate Blooms. (Proc. 2nd Intern. Conf.), Taylor, D.L. and Seliger, H.H. (eds.), Elsevier/North-Holland: N.Y., Vol. 1, p. 139, 1979.
 - 690 FUKUYO, Y. Theca and cyst of Gonyaulax excavata (Braarud) Balech found at Ofunato Bay, Pacific coast of northern Japan. In, Toxic Dinoflagellate Blooms. (Proc. 2nd Intern. Conf.), Taylor, D.L. and Seliger, H.H. (eds.), Elsevier/North-Holland: N.Y., Vol. 1, p. 61, 1979.

- 691 FUSETANI, N. and HASHIMOTO, Y. Hemolysins in a green alga Ulva pertusa. In, Animal, Plant, and Microbial Toxins. Ohsaka, A., Hayashi, K. and Sawai, Y. (eds.), Plenum Press: N.Y., Vol. 1, p. 325, 1976; see also Toxicon 13, 94, 1975 (Abst.).
- 692 FUSETANI, N. and HASHIMOTO, Y. Structures of two water soluble hemolysins isolated from the green alga Ulva pertusa. Agric. Biol. Chem. 39, 2021, 1975.
- 693 FUSETANI, N., OZAWA, C. and HASHIMOTO, Y. Fatty acids as ichthyotoxic constituents of a green alga Chaetomorpha minima. Bull. Jpn. Soc. scient. Fish. 42, 941, 1976.
- 694 GALLAGHER, M.P. and SHINNICK-GALLAGHER, P. Effect of Gymnodinium breve toxin in the rat phrenic nerve diaphragm preparation. Br. J. Pharmacol. 69, 367, 1980.
- 695 GALTISOFF, P.S. Red tide. Progress report on the investigations of the cause of the mortality of fish along the west coast of Florida. U.S. Fish Wildl. Serv. Res. Rept. (46), 43p., 1948.
- 696 GATES, J.A. and WILSON, W.B. The toxicity of Gonyaulax monilata Howell to Mugil cephalus. Limnol. Oceanogr. 5, 171, 1960.
- 697 GENTILE, J. Blue-green and green algal toxins. In, Microbial Toxins. Kadis, S., Ciegler, A. and Ajl, S. (eds.), Academic: N.Y., vol. 7, p. 27, 1971.
- 698 GENTILE, J. and MALONEY, T. Toxicity and environmental requirements of a strain of Aphanizomenon flos-aquae (L.) Ralfs. Can. J. Microbiol. 15, 165, 1969.
- 699 GERSHEY, R.M., NIVE, R.A. and MUSGROVE, D.L. A colorimetric method for determination of saxitoxin. J. Fish. Res. Bd. Can. 34, 559, 1977.
- 700 GHAFFAR, A. The activation of macrophages by Corynebacterium parvum: effect of anti-complementary agents, cobra venom factor and sodium cyanate. J. reticulo. Soc. 27, 327, 1980.
- 701 GHAZAROSSIAN, V.E., SCHANTZ, E.J., SCHNOES, H.K. and STRONG, F.M. Identification of a poison in toxic scallops from a Gonyaulax tamarensis red tide. Biochem. biophys. Res. Commun. 59, 1219, 1974.
- 702 GHAZAROSSIAN, V.E., SCHANTZ, E.J., SCHNOES, H.K. and STRONG, F.M. A biologically active acid hydrolysis product of saxitoxin. Biochem. biophys. Res. Commun. 68, 776, 1976.
- 703 GILFILLIAN, E.S. Effects of paralytic shellfish poisoning toxin on the behavior and physiology of marine invertebrates. In, Proceedings of the First International Conference on Toxic Dinoflagellate Blooms. LoCicero, V.R. (ed.), Mass. Sci. Tech. Found.: Wakefield, Mass., p. 367, 1975.
- 704 GITSCHIER, J., STRICHARTZ, G.R. and HALL, L.M. Saxitoxin binding to sodium channels in head extracts from wild-type and tetrodotoxin-sensitive strains of Drosophila melanogaster. Biochim. biophys. Acta 595, 291, 1980.
- 705 GOMOIU, M.T. Les consequences negatives de la "floraison" des eaux a Exuviaella cordata Ostenf. du littoral Roumain de la Mer Noire. Reun. Comm. Int. Explor.

- Sci. Mer. Mediterr., Monaco 24, 121, 1977.
- 706 GORHAM, P. Toxic waterblooms of blue-green algae. Can. vet. J. 1, 235, 1960.
- 707 GORHAM, P. Laboratory studies on the toxins produced by waterblooms of blue-green algae. Am. J. pub. Hlth. 52, 2100, 1962.
- 708 GORHAM, P.R. Toxic algae. In, Algae and Man. Jackson, D.F.H. (ed.), Plenum Press: N.Y., p. 307, 1964.
- 709 GORHAM, P.R. and CARMICHAEL, W.W. Phycotoxins from blue-green algae. Pure appl. Chem. 52, 165, 1980.
- 710 GORHAM, P.R. and CARMICHAEL, W.W. Toxic substances from freshwater algae. Prog. Water Technol. 12, 189, 1980.
- 711 GRALL, J.R. Sur une "eau colorée" à Gyrodinium aureolum Hulbert observée en Manche. Trav. Sta. biol. Roscoff 23, 19, 1977.
- 712 GRALL, J.R., LE FÈVRE-LE-HOERFF, G. and LE FÈVRE, J. Observations sur la distribution du plancton à proximité d'Ouessant en Juin 1969 et ses relations avec le milieu physique. Cahiers oceanogr. 23, 145, 1969.
- 713 GRAUER, F.H. Dermatitis escharotica caused by a marine alga. Hawaii med. J. 19, 32, 1959.
- 714 GRAUER, F.H. Seaweed dermatitis apparently caused by a marine alga. Clinical investigative procedures. Proc. Hawaii Acad. Sci., 34th Ann. Meet., p. 18, 1959.
- 715 GRAUER, F.H. and ARNOLD, H.L. Seaweed dermatitis. First report of a dermatitis-producing marine alga. Arch. Derm. 84, 720, 1961.
- 716 GRIFFITHS, A.B., DENNIS, R. and POTTS, G.W. Mortality associated with a phytoplankton bloom off Penzance in Mounts Bay. J. mar. Biol. Assoc. U.K. 59, 520, 1979.
- 717 GRINDLEY, J.R. Red water and marine fauna mortality near Cape Town. Trans. Roy. Soc. S. Afr. p. 111, 1964.
- 718 GRINDLEY, J.R. and TAYLOR, F.J.R. Red water and mass-mortality of fish near Cape Town. Nature 194, 1324, 1962.
- 719 GROPP, F., WERNER, E., DITTWALD, R. and KROEGER, H. A NAD protein ADP ribosyl transferring activity from the dinoflagellate Cryptocodinium cohnii. Hoppe-Seyler's Z. physiol. Chem. 359, 1091, 1978 (Abst.).
- 720 GRUNFELD, Y. and SPIEGELSTEIN, M.Y. Effects of Gymnodinium breve toxin on the smooth muscle preparation of guinea-pig ileum. Br. J. Pharmacol. 51, 67, 1974.
- 721 GULDAGER, A. Doggerbankeeksem, forsog pa profylaktisk behandling med corticosteroider. Ugeskr. laeg. 121, 1567, 1959.
- 722 GUNTER, G. and LYLES, C.H. Localized plankton blooms and jubilee on the Gulf Coast. Gulf Res. Rept. 6(3), 297, 1979.
- 723 GUNTER, G., SMITH, F., WALTON-SMITH, G. and WILLIAMS, R.H. Mass mortality of marine animals on the lower west coast of Florida, November 1946-January 1947. Science 105, 256, 1947.
- 724 GUNTER, G., WILLIAMS, R.H., DAVIS, C.C. and SMITH, F.G.W. Catastrophic mass mortality of marine animals and coincident phytoplankton bloom on the west coast of Florida, November 1946

- to August 1947. Ecol. Monogr. 18, 311, 1948.
- 725 GUZMÁN, L. and CAMPODÓNICO, I. Mareas rojas en Chile. Interciencia 3, 144, 1978.
- 726 HABEKOST, R.C., FRASER, I.M. and HALSTEAD, B.W. Observations on toxic marine algae. J. Wash. Acad. Sci. 45, 101, 1955.
- 727 HABERMEHL, G. Recent aspects of animal venoms in chemistry and biochemistry. Period. Biol. 80 (Suppl. 1), 5, 1978.
- 728 HAHIN, R. and STRICHARTZ, G. Hydrogen bonding and the saxitoxin-sodium channel interaction. Fed. Proc. 36, 2065, 1980.
- 729 HALEVY, W. and AVIVI, L. Isolation of hemolysins from Ochromonas spp., Prymnesium parvum and Trypanosoma ranarum. J. Protozool. 15, (Suppl.), 45, 1968.
- 730 HALEVY, S., SALITERNIK, R. and AVIVI, L. Isolation of rhodamine-positive toxins from Ochromonas and other algae. Intern. J. Biochem. 2, 185, 1971.
- 731 HALL, S., NEVE, R.A., REICHARDT, P.B. and SWISHER, G.A., JR. Chemical analysis of paralytic shellfish poisoning in Alaska. In, Toxic Dinoflagellate Blooms. (Proc. 2nd Intern. Conf.), Taylor, D.L. and Seliger, H.H. (eds.), Elsevier/North-Holland: N.Y., vol. 1, p. 345, 1979.
- 732 HALSTEAD, B.W. Animal phyla known to contain poisonous marine animals. In, Venoms. Buckley, E.E. and Porges, N. (eds.), A.A.A.S.: Washington, p. 9, 1956.
- 733 HALSTEAD, B.W. Dangerous Marine Animals. Cornell Maritime Press: Cambridge, Mass., 146p., 1959.
- 734 HALSTEAD, B.W. Poisonous and Venomous Marine Animals. U.S. Govt. Print. Off.: Washington, vol. 1, p. 157, 1965.
- 735 HALSTEAD, B.W. Poisonous and Venomous Marine Animals of the World. Rev. edit., Darwin Press: Princeton, N.J., 238p., 1978.
- 736 HALSTEAD, B.W. and RUSSELL, F.E. Toxic marine organisms. In, Handbook of Biological Data. Spector, W.S. (ed.), Saunders: Philadelphia, p. 424, 1956.
- 737 HALSTEAD, B.W., CARSCALLEN, L.J. and RUSSELL, F.E. Animal toxins. Part III. Marine organisms. In, Biology Data Book. Altman, P.L. and Dittmer, D.S. (eds.), F.A.S.E.B.: Washington, p. 326, 1964.
- 738 HANSEN BAY, C.M. and STRICHARTZ, G.R. Saxitoxin binding to sodium channels of rat skeletal muscles. J. Physiol. 300, 89, 1980.
- 739 HASHIMOTO, Y. Toxins of the Gonyaulax sp. and infested bivalves in Owase Bay. Nihon Suisan-Gakki Shi 42, 851, 1976.
- 740 HASHIMOTO, Y. [Marine Toxins]. Univ. Tokyo Press: Tokyo, 1977.
- 741 HASHIMOTO, Y. Marine Toxins and Other Bioactive Metabolites. Jpn. Sci. Soc.: Tokyo, 1979.
- 742 HASHIMOTO, Y. and FUSEYANI, N. Screening of the toxic algae on coral reefs. In, Proceedings of the Seventh International Seaweed Symposium. Univ. Tokyo Press: Tokyo, p. 569, 1971.
- 743 HASHIMOTO, Y. and FUSEYANI, N. Toxins occurring in marine organisms important as food sources in the Indo-Pacific. Lab. Mar.

Biochem., Hongu Bukyo-ku,
Tokyo, 9p., 1978.

744 HASHIMOTO, Y. and KAMIYA, H.
Food chain hypotheses on the ori-
gin of marine toxins. Bull. Jpn.
Soc. scient. Fish. 36, 425, 1970.

745 HASHIMOTO, Y., NOGUCHI, T. and
ADACHI, R. Occurrence of toxic
bivalves in association with the
bloom of *Gonyaulax* sp. in Owase
Bay. Bull. Jpn. Soc. scient. Fish.
42, 671, 1976.

746 HASHIMOTO, Y., KAMIYA, H.,
YAMAZATO, K. and NOZAWA,
K. Occurrence of a toxic blue-
green alga inducing skin derma-
titis in Okinawa. In, Animal,
Plant and Microbial Toxins.
Ohsaka, A., Hayashi, K. and
Sawai, Y. (eds.), Plenum Press:
N.Y., vol. 1, p. 333, 1976; see also
Toxicon 13, 95, 1975 (Abst.).

747 HASHIMOTO, Y., OKAICHI, T.,
DANG, L.D. and NOGUCHI, T.
Glenodinine, an ichthyotoxic sub-
stance produced by a dinoflagel-
late *Peridinium polonicum*. Bull.
Jpn. Soc. scient. Fish. 34, 258,
1968.

748 HATTORI, Y. and AKIBA, T. Studies
on the toxic substance in Asari
(*Venerupis semidecussata*). (2)
Method of testing for shellfish
toxicity. J. pharm. Soc. Jpn. 72,
572, 1952.

749 HAYES, H.L. and AUSTIN, T.S. The
distribution of discolored sea
water. Tex. J. Sci. 3, 530, 1951.

750 HAYES, M. Seasonal and geographic
distribution of toxin in Alaska and
British Columbia clams. In, Pro-
ceedings of the Joint Sanitation
Seminar on North Pacific Clams.
Felsing, W.A., Jr. (ed.), Govt.
Print. Off.: Washington, p. 5,
1965.

751 HEISE, H.A. Symptoms of hay fever
caused by algae. J. Allergy 20,
383, 1949.

752 HEISE, H.A. Symptoms of hay fever
caused by algae: II. *Microcystis*,
another form of algae producing
allergic reactions. Ann. Aller-
gy 9, 100, 1951.

753 HELFRICH, P. and BANNER, A.H.
Experimental induction of cigua-
tera toxicity in fish through diet.
Nature 197, 1025, 1963.

754 HELM, M.M., HEPPEL, B.T., SPEN-
CER, B.E. and WALNE, P.R. Lug-
worm mortalities and a bloom of
Gymnodinium aureolum Hulbert
in the eastern Irish Sea, Autumn,
1971. J. mar. Biol. Assoc. U.K.
54, 857, 1974.

755 HEMMERT, W.H. The public health
implications of *Gymnodinium*
breve red tides: a review of the
literature and recent events. In,
Proceedings of the First Inter-
national Conference on Toxic
Dinoflagellate Blooms. LoCi-
cero, V.R. (ed.), Mass. Sci. Tech.
Found.: Wakefield, Mass., p. 89,
1975.

756 HENDERSON, R., RITCHIE, J.M. and
STRICHARTZ, G.R. The binding
of labeled saxitoxin to the sodium
channels in nerve membranes. J.
Physiol. 235, 783, 1973.

757 HENDERSON, R., RITCHIE, J.M. and
STRICHARTZ, G.R. Evidence
that tetrodotoxin and saxitoxin
act at metal cation binding site in
the sodium channels of nerve
membranes. Proc. natn. Acad.
Sci. 71, 3936, 1974.

758 HIGGINS, J.E. Some properties of
Gymnodinium breve toxins deter-
mined bioanalytically in mice. In,
Drugs from the Sea. Freudenthal,
H.D. (ed.), Mar. Tech. Soc.:
Washington, p. 213, 1968.

- 759 HILL, W.H. The occurrence and etiology of paralytic shellfish poisoning. I. A. review (1790 to 1952). Min. Pac. Coast Shellf. Comm., January 1953.
- 760 HILLE, B. The receptor for tetrodotoxin and saxitoxin. Biophys. J. 15, 615, 1975.
- 761 HIYAMA, Y. Poisonous fishes of the South Pacific. U.S. Fish Wildl. Serv., Spec. Sci. Rept. (25), 188p., 1943. (Van Campen, W.G., transl. from Japanese, publ. 1950).
- 762 HOKAMA, Y., MIYAHARA, J., NAGASAWA, S. et al. The effect of maitotoxin isolated from dinoflagellate on Ehrlich ascites tumor and its side effect in mice. Ann. Meet. Am. Soc. Microbiol., p. 384, 1979.
- 763 HOLDWAY, P.A. and WATSON, R.A. Growth and ichthyotoxicity in two strains of Prymnesium parvum haptophyta as affected by phosphorous concentration. Br. Phycol. J. 13, 201, 1978.
- 764 HORNEILL, J. A new protozoan cause of wide-spread mortality among marine fishes. Madras Fish. Bull. 11, 53, 1917.
- 765 HOUCK, J., MORRIS, R. and LAZARO, E. Anticoagulant, lipemia clearing and other effects of anionic polysaccharides extracted from seaweed. Proc. Soc. exp. Biol. Med. 96, 528, 1957.
- 766 HOWELL, J.F. Gonyaulax monilata sp. nov., the causative dinoflagellate of a red tide on the east coast of Florida in August-September, 1951. Trans. Am. microsc. Soc. 72, 153, 1953.
- 767 HSU, C.P., MARCHAND, A., SHIMIZU, Y. and SIMS, G.G. Paralytic shellfish toxins in the sea scallop, Placopecten magellanicus, in the Bay of Fundy. J. Fish. Res. Bd. Can. 36, 32, 1979.
- 768 HUGHES, E., GORHAM, P. and ZEHNDER, A. Toxicity of a unialgal culture of Microcystis aeruginosa. Can. J. Microbiol. 4, 225, 1958.
- 769 HUGHES, J.M. Epidemiology of shellfish poisoning in the United States, 1971-197. In, Toxic Dinoflagellate Blooms. (Proc. 2nd Intern. Conf.), Taylor, D.L. and Seliger, H.H. (eds.), Elsevier/North-Holland: N.Y., vol. 1, p. 23, 1979.
- 770 HUGHES, J.M. and MERSON, M.H. Fish and shellfish poisoning. New Engl. J. Med. 295, 1117, 1976.
- 771 HUGHES, J.M., MERSON, M.H. and GANGAROSA, E.J. The safety of eating shellfish. J.A.M.A. 237, 1980, 1977.
- 772 HULME, F.E. Natural History of Lore and Legend. London, 350p., 1895.
- 773 HUMM, H.J. and WICKS, S.R. An Introduction and Guide to the Marine Bluegreen Algae. John Wiley & Sons: N.Y., 194p., 1980.
- 774 HUMPHREYS, F.A. and GIBBONS, R.J. Deaths of mink, probably paralytic shellfish poisoning. Can. J. comp. Med. 5, 84, 1941.
- 775 HUNT, D., TUFTS, N. and HUGHES, J. Monitoring programs and epidemiology. In, Toxic Dinoflagellate Blooms. (Proc. 2nd Intern. Conf.), Taylor, D.L. and Seliger, H.H. (eds.), Elsevier/North-Holland: N.Y., vol. 1, p. 489, 1979.
- 776 HURST, J.W., JR. History of the paralytic shellfish poisoning on the Maine Coast 1958-1974. In, Proceedings of the First International Conference on Toxic

- Dinoflagellate Blooms. LoCi-cero, V.R. (ed.), Mass. Sci. Tech. Found.: Wakefield, Mass., p. 525, 1975.
- 777 HURTEL, J.M., CHANTEAU, S., DROLLET, J.H. and BAGNIS, R. Culture en milieu artificiel du dinoflagellate responsable de la ciguatera. Rev. intern. Océanogr. méd. 55, 29, 1979.
- 778 HUTNER, S.H. and MC LAUGHLIN, J.J.A. Poisonous tides. Scient. Am. 199, 92, 1958.
- 779 HUTTON, R.F. An annotated bibliography of red tides occurring in the marine waters of Florida. Q. J. Fla. Acad. Sci. 19, 123, 1956.
- 780 HUTTON, R.F. Marine dermatitis. A.M.A. Arch. Derm. 82, 951, 1960.
- 781 HYMAN, L.H. The Invertebrates: Protozoa through Ctenophora. McGraw-Hill: N.Y., 725p., 1940.
- 782 IKAWA, M. Isolation of Gymnodinium breve toxin from Florida red tide water. Toxicon 11, 201, 1973.
- 783 IKAWA, M. Comparative studies on toxin of microorganisms. In, Proceedings of the First International Conference on Toxic Dinoflagellate Blooms. LoCi-cero, V.R. (ed.), Mass. Sci. Tech. Soc. Found.: Wakefield, Mass., 1975.
- 784 IKAWA, M. and TAYLOR, R. Choline and related substances in algae. In, Marine Pharmacognosy. Action of Marine Biotoxins at the Cellular Level. Martin, D. and Padilla, G. (eds.), Academic: N.Y., p. 203, 1973.
- 785 IKEDA, T. and MOTODA, S. Zooplankton production in the Bering Sea calculated from 1956. Mar. Sci. Commun. 4, 329, 1978.
- 786 IMAI, M. and INOUE, K. The mechanism of action of Prymnesium toxin on membranes. Biochim. biophys. Acta 352, 344, 1974.
- 787 INGHAM, H.R., MASON, J. and WOOD, P.C. Mussels not for eating. Nature 220, 628, 1968.
- 788 INGLE, R.M. Irritant gases associated with red tide. Miami Mar. Lab. Spec. Serv. Bull. (9), 1, 1954.
- 789 INGLE, R.M. and DE SYLVA, D.P. The red tide. Fla. St. Bd. Conserv. Ed. Serv. (1), 30p., 1955.
- 790 INGLE, R.M. and WILLIAMS, J. Introduction to a northeast Gulf of Mexico red tide (Gymnodinium breve) in Florida. Fla. St. Bd. Conserv., Mar. Lab. Prof. Pap. Ser. 8, 1, 1966.
- 791 INGRAM, W. and PRESCOTT, G. Toxic freshwater algae. Am. Midl. Nat. 52, 75, 1954.
- 792 INOUE, K., IMAI, M. and KITIGAWA, T. Studies on the mechanism of action of Prymnesium toxin toward membranes. In, Animal, Plant, and Microbial Toxins. Ohsaka, A., Hayashi, K., and Sawai, Y. (eds.), Plenum: N.Y., vol. 1, p. 399, 1976; see also Toxicon 13, 99, 1975 (Abst.).
- 793 INTERNATIONAL COUNCIL FOR THE EXPLORATION OF THE SEA. Report of the working group on red tides and eutrophication. Lowestoft, May 25-27, 1976.
- 794 IRIE, T., SUZUKI, M. and HAYAKAWA, Y. Isolation of aplysin, debromoaplysin, and aplysinol from Laurencia okamurai yamada. Bull. chem. Soc. Jpn. 42, 843, 1969.
- 795 ITO, K. Free amino acids and peptides in marine algae (Review).

- Bull. Jpn. Soc. scient. Fish. 35, 116, 1969.
- 796 JACKIM, E. and GENTILE, J. Toxins of a blue-green alga: similarity to saxitoxin. Science 162, 915, 1968.
- 797 JAGGARD, P.J. and EVANS, M.H. Administration of tetrodotoxin and saxitoxin into the lateral cerebral ventricle of the rabbit. Neuropharmacol. 14, 345, 1975.
- 798 JAHN, T.L. How to Know the Protozoa. W.C. Brown: Dubuque, 231p., 1949.
- 799 JARIV, J. The toxin of *Prymnesium parvum*. Bull. Res. Council Israel 34, 96, 1955.
- 800 JENNINGS, R.K. and ACKER, R.F. The Protistan Kingdom. Van-Nostrand Reinhold: Toronto, 120p., 1970.
- 801 JOENSEN, H.D. Arbejdsmiljøskader inden for fiskerierhvervet. Ugeskr. læg. 141, 3396, 1979.
- 802 JOHNSON, H.M. and MULBERRY, G. Paralytic shellfish poison: serological assay by passive haemagglutination and bentonite flocculations. Nature 211, 747, 1966.
- 803 JOHNSON, H.M., ALLEN, P., ANGELOTTI, R., CAMPBELL, J.E. and LEWIS, K.H. Haptenic properties of paralytic shellfish poison conjugated to proteins by formaldehyde treatment. Proc. Soc. exp. Biol. Med. 117, 425, 1964.
- 804 KAMIYA, H. and HASHIMOTO, Y. Occurrence of saxitoxin and related toxins in Palauan bivalves. Toxicon 16, 303, 1978.
- 805 KANNO, K. [Occurrence of toxins resembling ciguatoxin, scaritoxin, and maitotoxin in a turban shell.] Nihon Suisan-Gakkaishi 42, 1399, 1976.
- 806 KAO, C.Y. Tetrodotoxin, saxitoxin and their significance in the study of excitation phenomena. Pharmac. Rev. 18, 997, 1966.
- 807 KAO, C.Y. Comparison of biological actions of tetrodotoxin and saxitoxin. In, Animal Toxins. Russell, F.E. and Saunders, P.R. (eds.), Pergamon: Oxford, p. 109, 1967; see also Toxicon 4, 295, 1972.
- 808 KAO, C.Y. Pharmacology of tetrodotoxin and saxitoxin. Fed. Proc. 31, 1117, 1972.
- 809 KAO, C.Y. Cardiovascular actions of saxitoxin. In, Proceedings of the First International Conference on Toxic Dinoflagellate Blooms. Lo-Cicero, V.R. (ed.), Mass. Sci. Tech. Found.: Wakefield, Mass., p. 347, 1973.
- 810 KAO, C.Y. and FUHRMAN, F.A. Differentiation of the actions of tetrodotoxin and saxitoxin. Toxicon 3, 25, 1967.
- 811 KAO, C.Y. and NISHIYAMA, A. Actions of saxitoxin on peripheral neuromuscular systems. J. Physiol. 180, 50, 1965.
- 812 KAO, C.Y. and YEOH, P.N. Different receptors for saxitoxin and tetrodotoxin. J. Physiol. 284, 88, 1978.
- 813 KAO, C.Y., SUZUKI, T., LEINHAUS, A.L. and SIEGMANN, M.J. Vasomotor and respiratory depressant actions of tetrodotoxin and saxitoxin. Arch. intern. Pharmacodyn. 165, 438, 1967.
- 814 KARLSSON, E. Chemistry of some potent animal toxins. Experientia 29, 1319, 1973.

- 815 KAT, M. The occurrence of Prorocentrum species and coincidental gastrointestinal illness of mussel consumers. In, Toxic Dinoflagellate Blooms. (Proc. 2nd Intern. Conf.), Taylor, D.L. and Seliger, H.H. (eds.), Elsevier/North-Holland: N.Y., vol. 1, p. 215, 1979.
- 816 KAT, M. Preliminary note on dinoflagellate cysts in the Oosterschelde (The Netherlands) in relation to shellfish poisoning. Aquaculture 21, 97, 1980.
- 817 KATO, Y. and SCHEUER, P. The aplysiatoxins. Pure appl. Chem. 41, 1, 1975.
- 818 KATO, Y. and SCHEUER, P. The aplysiatoxins: reactions with acid and oxidants. Pure appl. Chem. 48, 29, 1976.
- 819 KAUL, P.N., KULKARNI, S.K., WEINHEIMER, A.J., SCHMITZ, F.J. and KARNS, T.K.B. Pharmacologically active substances from the sea, II. Various cardiovascular activities found in the extracts of marine organisms. Lloydia 40, 253, 1977.
- 820 KAYSER, H. Growth interactions between marine dinoflagellates in multispecies culture experiments. Mar. Biol. (Berl.) 52, 357, 1979.
- 821 KELETI, G., SYKORA, J.L., LIPPY, E.D. and SHAPIRO, M.A. Composition and biological properties of lipopolysaccharides isolated from Schizothrix calcicola (Ag.) Gomont (cyanobacteria). Appl. environ. Microbiol. 38, 471, 1979.
- 822 KELLAWAY, C.H. Mussel poison. Med. J. Aust. (1), 261, 1935.
- 823 KENNEDY, J.R., JR. Characteristics and cellular localization of the hemolytic toxin from the euryhaline flagellate Prymnesium parvum. In, Drugs from the Sea. Freudenthal, H.D. (ed.), Mar. Tech. Soc.: Washington, p. 185, 1968.
- 824 KEYS, V.E. Management of Florida red tides regarding shellfish harvesting. In, Proceedings of the First International Conference on Toxic Dinoflagellate Blooms. LoCicero, V.R. (ed.), Mass. Sci. Tech. Found.: Wakefield, Mass., p. 483, 1975.
- 825 KIM, Y.S. Separation and analysis of toxins isolated from a red tide sample of Gymnodinium breve. In, Proceedings of the First International Conference on Toxic Dinoflagellate Blooms. LoCicero, V.R. (ed.), Mass. Sci. Tech. Found.: Wakefield, Mass., p. 299, 1975.
- 826 KIM, Y.S. and PADILLA, G.M. Purification of the ichthyotoxic component of Gymnodinium breve (red tide dinoflagellate) toxin by high pressure liquid chromatography. Toxicon 14, 379, 1976.
- 827 KIM, Y.S. and PADILLA, G.M. Hemolytically active components from P. parvum and G. breve toxins. Life Sci. 21, 1287, 1977.
- 828 KIM, Y.S., LINTON, J.R. and MARTIN, D.F. Hemolysis of rabbit and mullet red cells by Gymnodinium breve toxin. Toxicon 12, 439, 1974.
- 829 KIM, Y.S., PADILLA, G.M. and MARTIN, D.F. Effect of G. breve toxin on calcium uptake and ATPase activity of sarcoplasmic reticulum vesicles. Toxicon 16, 495, 1978.
- 830 KIM, Y.S., MANDEL, L.J., WESTERFIELD, M., PADILLA, G.M. and MOORE, J.W. Effect of Gymnodinium breve toxin on frog skin

- and the giant axon of the squid. Environ. Lett. 9, 225, 1975.
- 831 KIRPENKO, Y., PEREVOZCHENKO, I., SIRENKO, K. and LUKINA, L. [Isolation of toxin from blue-green algae biomass and some of its physiochemical properties.] Dopov. Akad. Nauk. RSR Ser. B, p. 339, 1975.
- 832 KLAUS, G. Pharmaceuticals from the oceans. Drug Cosmetic Ind. 103, 48, 1968.
- 833 KLOSS, R. Dinobryon stipitatum Stein, ein weiterer toxischer Vertreter aus der Ordnung der Chrysomonadales. Acta Hydrochim. Hydrobiol. 6, 35, 1978.
- 834 KOCH, H.J. Dinoflagellate als oorzaak van verlamdend mooselvergiftiging. Natuurw. Tijdschr. 22, 196, 1940.
- 835 KOFOID, C.A. Dinoflagellata of the San Diego region. 4. The genus Gonyaulax, with notes on its skeletal morphology and a discussion of its generic and specific characters. Univ. Calif. Publs. Zool. 3, 187, 1911.
- 836 KOFOID, C.A. and SWEZY, O. The free-living unarmored dinoflagellata. Mem. Univ. Calif. 5, 1, 1921.
- 837 KOMAROVSKY, B. Some characteristic waterblooms in Lake Tiberias and fish ponds in the Jordan Valley. Vehr. Intern. Ver. Theor. Angew. Limnol. 11, 219, 1931.
- 838 KONOSU, S., INOUE, A., NOGUCHI, T. and HASHIMOTO, Y. Comparison of crab toxin with saxitoxin and tetrodotoxin. Toxicon 6, 113, 1968.
- 839 KORNALIK, F. [Animal Toxins.] State Pub. Hlth.; Prague, 288p., 1967.
- 840 KOTAKI, Y. [Occurrence of saxitoxin in a green turban shell.] Nihon Suisan-Gakkai Shi 43, 207, 1977.
- 841 KRUEGER, B.K., RATZLAFF, R.W., STRICHARTZ, G.R. and BLAU-STEIN, M.P. Saxitoxin binding to synaptosomes, membranes and solubilized binding sites from rat brain. J. membrane Biol. 50, 287, 1979.
- 842 LACKEY, J.B. and HYNES, J.A. The Florida gulf coast red tide. Bull. Fla. eng. indust. exp. Sta., Gainesville (Ser. 70), 9, 1, 1955.
- 843 LANE, C.E. Toxins of marine origin. Ann. Rev. Pharmacol. 8, 409, 1968.
- 844 LARSON, E. and HUMPHRIES, J. The alleged toxicity of some marine algae. Fed. Proc. 28, 610, 1969.
- 845 LASKER, R. and SMITH, F.G. Red tide. In, Gulf of Mexico, Its Origin, Waters and Marine Life. Galtsoff, P.S. (coord.), U.S. Fish Wildl. Serv., Fish. Bull. (89), 173p., 1954.
- 846 LAWRENCE, D.N., ENRIQUEZ, M.B., LUMISH, R.M. and MACEO, A. Ciguatera fish poisoning in Miami. J.A.M.A. 244, 254, 1980.
- 847 LEE, R.E. Phycology. Cambridge Univ. Press; London, 478p., 1980.
- 848 LE FEVRE, J. On the hypothesis of a relationship between dinoflagellate blooms and the "Amoco-Cadiz" oil spill. J. mar. Biol. Assoc. U.K. 59, 525, 1979.
- 849 LE FEVRE, J. and GRALL, J.R. On the relationships of Noctiluca swarming off the western coast of Brittany with hydrological

- features and plankton characteristics of the environment. J. exp. mar. Biol. Ecol. 5, 287, 1970.
- 850 LIEBERT, F. and DEERNS, W. Onderzoek naar de oorzaak van den vischsterfte in den polder Workumer-Nieuwland, nabij Workum. Verh. Rapp. Rijksinst. Vis-scherijonderzoek 1, 81, 1920.
- 851 LIGHTNER, D.V. Possible toxic effects of the blue-green alga, Spirulina subsalsa, on the blue shrimp, Penaeus stylirostris. J. invert. Path. 32, 139, 1978.
- 852 LINCOLNSHIRE RIVER BOARD. The association of Prymnesium parvum with fish mortalities in the Hobhole Drain. Dept. Lincolnshire River Board, Boston, Lincolnshire, England, 1965.
- 853 LIPPY, E.C. and ERB, J. Gastro-intestinal illness at Sewickley, Pa. J. Am. Waterworks Assoc. 68, 606, 1976.
- 854 LOCICERO, V.R., editor. Proceedings of the First International Conference on Toxic Dinoflagellate Blooms. Mass. Sci. Tech. Found.: Wakefield, Mass., 1975.
- 855 LOEBLICH, A.R., III and LOEBLICH, L.A. The systematics of Gonyaulax with special reference to the toxic species. In, Toxic Dinoflagellate Blooms. (Proc. 2nd Intern. Conf.), Taylor, D.L. and Seliger, H.H. (eds.), Elsevier/North-Holland: N.Y., p. 41, 1979.
- 856 LOEBLICH, A.R., III, SCHMIDT, R.J., GOOCH, V.D. et al. Comparative study of luminescent and nonluminescent strains of Gonyaulax excavata (Pyrrhophyta). J. Phycol. 14, 5, 1978.
- 857 LOEBLICH, L.A. and LOEBLICH, A.R., III. The organism causing New England red tides: Gonyaulax excavata. In, Proceedings of the First International Conference on Toxic Dinoflagellate Blooms. Lo-Cicero, V.R. (ed.), Mass. Sci. Tech. Found.: Wakefield, Mass., p. 207, 1975.
- 858 LOPEZCAPONT, F. Toxins in mussel and other mollusca—problems and importance for Spain. Rev. Argoz. tecn. alimen. 18, 47, 1978.
- 859 LOUGHRY, T. The warning of the red tide. Surveyor 10, 11, 1976.
- 860 LÜTHY, J. Epidemic paralytic shellfish poisoning in western Europe. In, Toxic Dinoflagellate Blooms. (Proc. 2nd Intern. Conf.), Taylor, D.L. and Seliger, H.H. (eds.), Elsevier/North-Holland: N.Y., vol. 1, p. 15, 1979.
- 861 LUTZ, R.A. and INCZE, L.S. Impact of toxic dinoflagellate blooms on the North American shellfish industry. In, Toxic Dinoflagellate Blooms. (Proc. 2nd Intern. Conf.), Taylor, D.L. and Seliger, H.H. (eds.), Elsevier/North-Holland: N.Y., vol. 1, p. 476, 1979.
- 862 MACIADO, P.A. Dinoflagellate bloom on the Brazilian south Atlantic coast. In, Toxic Dinoflagellate Blooms. (Proc. 2nd Intern. Conf.), Taylor, D.L. and Seliger, H.H. (eds.), Elsevier/North-Holland: N.Y., vol. 1, p. 29, 1979.
- 863 MACKINNON, D.L. and HAWES, R.S.J. An Introduction to the Study of Protozoa. Clarendon Press: Oxford, 306p., 1961.
- 864 MACLEAN, J.L. Red tide in the Morobe District of Papua, New Guinea. Pac. Sci. 29, 7, 1975.
- 865 MACLEAN, J.L. Observations on Pyrodinium bahamense Plate, a toxic dinoflagellate. Limnol. Oceanogr. 22, 234, 1977.

- 866 MACLEAN, J.L. Indo-Pacific red tides. In, Toxic Dinoflagellate Blooms. (Proc. 2nd Intern. Conf.), Taylor, D.L. and Seliger, H.H. (eds.), Elsevier/North-Holland: N.Y., vol. 1, p. 173, 1979.
- 867 MAGRUDER, W.H. and HUNT, J.W. Seaweeds of Hawaii. Oriental Publ. Co.: Honolulu, p. 36, 1979.
- 868 MAILLET, M., BONFILS, S. and LISTER, R. Carrageenans: effects in animals. Lancet (2), 414, 1970.
- 869 MAITI, B.C., THOMSON, R.H. and MAHENDRA, M. Structure of caulerpin, a pigment from Caulerpa algae. J. chem. Rex. 4, 126, 1978.
- 870 MALJAREVSKA, A.JA., BIRGER, T.I., SOLOMATINA, V.D. and HUPALO, JU.M. [Amino acid composition and transaminase activity in fish tissues in the medium with blue-green algae.] Ukr. Biokhim. Zh. 50, 718, 1978.
- 871 MANKES, R. and ABRAHAM, R. Lysosomal dysfunction in colonic subcosal macrophages of rhesus monkeys caused by degraded biota carrageenan. Proc. Soc. exp. Biol. Med. 150, 166, 1975.
- 872 MANWELL, R.D. Introduction to Protozoology. St. Martin's Press: N.Y., 642p., 1961.
- 873 MARCUS, R. and WATT, J. Seaweeds and ulcerative colitis in laboratory animals. Lancet (2), 489, 1969.
- 874 MARETIĆ, Z. [Venomous and Poisonous Animals of the Adriatic Sea.] J.A.Z.U.: Zagreb, Yugoslavia, 1975.
- 875 MARETIĆ, Z., POJED, I., ZEKIĆ, R. and DUJAN, M. Red tide due to dinoflagellates in the harbour of Pula. Period. Biol. 80 (Suppl. 1), 153, 1978.
- 876 MARTIN, D.F. Report on a biochemical red tide repressive agent. Environ. Lett. 9, 195, 1975.
- 877 MARTIN, D.F. Studies of toxins from Florida red-tide outbreaks. In, Proceedings of the First International Conference on Toxic Dinoflagellate Blooms. LoCicero, V.R. (ed.), Mass. Sci. Tech. Found.: Wakefield, Mass., p. 287, 1975.
- 878 MARTIN, D.F. and CHATTERJEE, A.B. Isolation and characterization of a toxin from the Florida red tide organism. Nature 221, 59, 1969.
- 879 MARTIN, D.F. and CHATTERJEE, A.B. Some chemical and physical properties of two toxins from the red-tide organism, Gymnodinium breve. U.S. Fish Wildl. Serv., Fish. Bull. 68, 433, 1970.
- 880 MARTIN, D.F. and MARTIN, B.B. Implications of metal-organic compounds in red tide outbreaks. In, Trace Metals and Metal-Organic Interactions in Natural Waters. Singer, P.C. (ed.), Ann Arbor Sci. Publ.: Ann Arbor, Mich., p. 362, 1973.
- 881 MARTIN, D.F. and PADILLA, G.M. Characterization of Prymnesium parvum toxin by means of hemolytic kinetics. Environ. Lett. 1, 199, 1971.
- 882 MARTIN, D.F. and PADILLA, G.M. Hemolysis induced by Prymnesium parvum toxin, kinetics and binding. Biochim. biophys. Acta 241, 213, 1971.
- 883 MARTIN, D.F. and PADILLA, G.M., editors. Marine Pharmacognosy. Action of Marine Biotoxins at the

Cellular Level. Academic: N.Y., 1973.

- 884 MARTIN, D.F. and PADILLA, G.M. Effect of Gymnodinium breve toxin on potassium influx of erythrocytes. Toxicon 12, 353, 1974.
- 885 MARTIN, D.F., PADILLA, G.M., HEYL, M.G. and BROWN, P.A. Effect of Gymnodinium breve toxin on hemolysis induced by Prymnesium parvum toxin. Toxicon 10, 285, 1972.
- 886 MATIDA, Y., KIMURA, S., YASHIMUTA, C., KUMADA, H. and TOKUNAGA, E. A toxic freshwater algae, Glenodinium gymnodinium Penard caused fish kills in artificially impounded Lake Sagami. Bull. freshwater fish. Res. Lab. 17, 73, 1967.
- 887 MC CARTHY, L.E. and BORISON, H.L. Central respiratory depression by shellfish poison (saxitoxin) in anesthetized cats. Fed. Proc. 35, 718, 1976.
- 888 MC COLLUM, J.P.K., PEARSON, R.C.M., INGHAM, H.R., WOOD, P.C. and DEWAR, H.A. An epidemic of mussel poisoning in northeast England. Lancet (2), 767, 1968.
- 889 MC COY, L.F., JR. and MARTIN, D.F. The influence of Gomphosphaeria aponina on the growth of ichthyotoxicity of Gymnodinium breve. Chem.-Biol. Interact. 17, 1977.
- 890 MC FARREN, E.F. Report on shellfish poison. J. Assoc. Off. agric. Chem. 41, 272, 1958.
- 891 MC FARREN, E.F. Collaborative study of the chemical assay for paralytic shellfish poison. J. Assoc. Off. agric. Chem. 43, 544, 1960.
- 892 MC FARREN, E.F. Differentiation of the poison of fish, shellfish and plankton. In, Animal Toxins. Russell, F.E. and Saunders, P.R. (eds.), Pergamon: Oxford, p. 85, 1967.
- 893 MC FARREN, E.F. Differentiation of the poison of fish, shellfish and plankton. Toxicon 4, 294, 1967 (Abst.).
- 894 MC FARREN, E.F. and BARTSCH, A.F. Application of the paralytic shellfish poison assay to poisonous fishes. J. Assoc. Off. agric. Chem. 43, 548, 1960.
- 895 MC FARREN, E.F., SCHANTZ, E.J., CAMPBELL, J.E. and LEWIS, K.H. Chemical determination of paralytic shellfish poison in clams. J. Assoc. Off. agric. Chem. 41, 168, 1958.
- 896 MC FARREN, E.F., SCHANTZ, E.J., CAMPBELL, J.E. and LEWIS, K.H. A modified Jaffe test for determination of paralytic shellfish poison. J. Assoc. Off. agric. Chem. 42, 399, 1959.
- 897 MC FARREN, E.F., SCHAFER, M.L., CAMPBELL, J.E. et al. Public health significance of paralytic shellfish poison. A review of literature and unpublished research. Proc. natn. Shellfish Assoc. 47, 114, 1956.
- 898 MC FARREN, E.F., SCHAFER, M.L., CAMPBELL, J.E. et al. Public health significance of paralytic shellfish poison. Adv. Food Res. 10, 135, 1960.
- 899 MC FARREN, E.F., TANABE, H., SILVA, F.J. et al. The occurrence of a ciguatera-like poison in oysters, clams, and Gymnodinium breve cultures. Toxicon 3, 111, 1965.

- 900 MC KEEVER, N. Toxin-producing marine macro-algae in South Florida coastal waters. Thesis, Univ. Miami, Florida, 96p., 1975.
- 901 MC LAUGHLIN, J.J. Euryhaline Chrysomonads: nutrition and toxigenesis of Prymnesium parvum, with notes on Isochrysis galbana and Monochrysis lutheri. J. Protozool. 5, 75, 1958.
- 902 MC LAUGHLIN, J.J.A. and DOWN, R.J. Intact killifish (Fundulus heteroclitis) as a tool for medically oriented study of marine neurotoxins. Zoologica 54, 85, 1969.
- 903 MC LAUGHLIN, J.J. and PROVASOLI, L. Nutritional requirements and toxicity of two marine Amphrolinium. J. Protozool. 4 (Suppl. 1), 7, 1957.
- 904 MC LAUGHLIN, J.J., ZAHL, P.A., NOWAK, A., MARICHISOTTO, J. and PRAGER, J. Mass cultivation of some phytoplanktons. Ann. N.Y. Acad. Sci. 90, 856, 1960.
- 905 MEBS, D. Chemistry of animal venoms, poisons and toxins. Experientia 29, 1328, 1973.
- 906 MEBS, S.D., SIMON, B., GEMMER, H. and STILLE, W. Occurrence of shellfish poisoning in the Frankfurt area (West Germany). Period. Biol. 80 (Suppl. 1), 151, 1978; see also Toxicon 16, 423, 1978 (Abst.).
- 907 MEYER, K.F. Medical progress: food poisoning. New Engl. J. Med. 249, 765, 804, 843, 1953.
- 908 MICKELSON, C. and YENTSCH, C.M. Toxicity and nucleic acid content of Gonyaulax excavata and Rhizosolenia sp. in mixed culture to a synthetic auxin. In, Toxic Dinoflagellate Blooms. (Proc. 2nd Intern. Conf.), Taylor, D.L. and Seliger, H.H. (eds.), Elsevier/North-Holland: N.Y., vol. 1, p. 131, 1979.
- 909 MILLS, L.J. and KLEIN-MC PHEE, G. Toxicity of the New England red tide dinoflagellate to winter flounder larvae. In, Toxic Dinoflagellate Blooms. (Proc. 2nd Intern. Conf.), Taylor, D.L. and Seliger, H.H. (eds.), Elsevier/North-Holland: N.Y., vol. 1, p. 389, 1979.
- 910 MINALE, L. Terpenoids from marine sponges. In, Marine Natural Products. Scheuer, P.J. (ed.), Academic: N.Y., vol. 1, p. 175, 1978.
- 911 MIYAJIMA, M. La question de "l'eau rouge," un péril pour les huîtres perlières. Bull. Soc. Cent. Aquic. Pêche 41, 97, 1934.
- 912 MOHLER, W.A. Een blauwwieren-phenomeen aan het strand van Balikpapan. Natuurw. Tijdschr. Ned. Indie 101 (3), 1941.
- 913 MOIKEHA, S. and CHU, G. Dermatitis-producing alga Lyngbea majuscula Gomont in Hawaii II. Biological properties of the toxic factor. J. Phycol. 7, 8, 1971.
- 914 MOIKEHA, S., CHU, G. and BERGER, L. Dermatitis-producing alga Lyngbea majuscula Gomont in Hawaii I. Isolation and chemical characterization of the toxic factor. J. Phycol. 7, 4, 1971.
- 915 MOLD, J.D. The isolation and identification of the toxic principle of the sea mussel, Mytilus californianus Conrad. Thesis, Northwestern Univ., Evanston, Ill., 71, 1, 1947.
- 916 MOLD, J.D., BOWDEN, J.P., STANGER, D.W. et al. Paralytic shellfish poison. VII. Evidence for the purity of the poison isolated

- from toxic clams and mussels. J. Am. chem. Soc. 79, 5235, 1957.
- 917 MOORE, R.E. Toxins from blue-green algae. BioScience 27, 797, 1977.
- 918 MORAN, A. and ILANI, A. The effect of prymnesium on the electric conductivity of thin lipid membranes. J. membrane Biol. 16, 237, 1974.
- 919 MOSHER, H.S. Non-protein neurotoxins. Science 151, 860, 1966.
- 920 MOSHIRI, G.A., CROMPTON, W.G. and BLAYLOCK, D.A. Algal metabolites and fish kills in a bayou estuary: an alternative explanation to the low dissolved oxygen controversy. J. Water Pollut. Control Fed. 50, 2043, 1978.
- 921 MOTODA, S. [Sea and Plankton.] Kawade: Shobo, 233p., 1944.
- 922 MOTODA, S. Studies on the source of shellfish poison in Lake Hamana-IV. Identification and collection of the noxious dinoflagellate. Bull. Jpn. Soc. scient. Fish. 34, 130, 1968.
- 923 MOUCHET, P. À propos des algues toxiques. I partie. Eau Ind. (33), 36, 1979.
- 924 MUIĆ, V., ZEKIĆ, R., MARETIĆ, Z. and BUJAN, M. Infection and contamination of some edible animals in the polluted sea area of Pula. Toxicon 16, 424, 1978 (Abst.).
- 925 MULBERRY, G. Paralytic shellfish poison—serological assay by passive hemagglutination and bentonite flocculations. Nature 211, 747, 1966.
- 926 MURANO, M. Paralytic shellfish poisoning in Ofunato Bay and a suspected species of plankton. Info. Bull. Plankt. Jpn. 22, 33, 1975.
- 927 MURTHY, J.R. and CAPINDALE, J. A new isolation and structure for the endotoxin from *Microcystis aeruginosa* NRC-1. Can. J. Biochem. 48, 508, 1970.
- 928 MYNDERSE, J.S. and MOORE, R.E. Toxins from blue-green algae: structures of oscillatoxin A and three related bromine-containing toxins. J. org. Chem. 43, 2301, 1978.
- 929 MYNDERSE, J.S., MOORE, R.E., KASHIWAGI, M. and NORTON, T. Antileukemia activity in the Oscillatoriaceae: isolation of debromoplysiatoxin from *Lyngbya*. Science 196, 538, 1977.
- 930 NAKAZIMA, M. Studies on the source of shellfish poison in Lake Hamana. II. Shellfish toxicity during the red-tide. Nihon Suisan-Gakki Shi 31, 204, 1965.
- 931 NAKAZIMA, M. Studies on the source of shellfish poison in Lake Hamana. III. Poisonous effects of shellfishes feeding on *Prorocentrum* sp. Nihon Suisan-Gakki Shi 31, 281, 1965.
- 932 NARAHASHI, T. Mechanism of action of tetrodotoxin and saxitoxin on excitable membranes. Fed. Proc. 31, 1124, 1972.
- 933 NARAHASHI, T. Chemicals as tools in the study of excitable membranes. Physiol. Rev. 54, 813, 1974.
- 934 NARAHASHI, T. Mode of action of dinoflagellate toxins on nerve membranes. In, Proceedings of the First International Conference on Toxic Dinoflagellate Blooms. LoCicero, V.R. (ed.),

Mass. Sci. Tech. Found.: Wakefield, Mass., p. 395, 1975.

- 935 NARAHASHI, T., BRODWICK, M.S. and SCHANTZ, E.J. Mechanism of action of a new toxin from Gonyaulax tamarensis on nerve membranes. Environ. Lett. 9, 234, 1975.
- 936 NEL, E.A. Red water and mussel poisoning at Elands Bay, December 1966. Fish. Bull. 6, 36, 1970.
- 937 NETTER, A. and RIBADEAU-DUMAS, L. Accidents toxiques à forme paralytiques consécutifs à l'ingestion de moules. Examens bactériologiques et inoculations. Soc. Biol. 63, 81, 1907.
- 938 NEVO, Z. and SHARON, N. The chemical structure of the cell wall of the dinoflagellate alga Peridinium westii. Israel J. Chem. 5, 139, 1967.
- 939 NEWHOUSE, M.L. Dogger bank itch: survey of trawlermen. Br. med. J. (1), 1142, 1966.
- 940 NICCOLAI, N., SCHNOES, H.K. and GIBBONS, W.A. Study of the stereochemistry, relaxation mechanisms, and internal motions of natural products utilizing proton relaxation parameters: solution and crystal structures of saxitoxin. J. Am. chem. Soc. 102, 1513, 1980.
- 941 NIGHTINGALE, H.W. Red Water Organisms: Their Occurrence and Influence upon Marine Aquatic Animals, with Special Reference to Shellfish in Waters of the Pacific Coast. Argus Press: Seattle, 24p., 1936.
- 942 NIGRELLI, R.F., STEMPIEN, M.F., RUGGIERI, G.D., LIGUORI, V.R. and CECIL, J.T. Substances of potential importance from marine organisms. Fed. Proc. 26, 1197, 1967.
- 943 NISHIYAMA, A. Effect of saxitoxin on spontaneous release of acetylcholine from the frog's motor nerve endings. Tohoku J. exp. Med. 95, 201, 1968.
- 944 NOGUCHI, T., KONOSU, S. and HASHIMOTO, Y. Identity of the crab toxin with saxitoxin. Toxicon 7, 325, 1969.
- 945 NOZAWA, K. The effect of Peridinium toxin in other algae. Misaki mar. Biol. Inst. 12, 21, 1968.
- 946 NÚÑEZ-ORTEGA, D.A. Ensayo de una explicación del origen de las grandes mortandades de peces que ocurren en el Golfo de Mexico. La Naturaleza 4, 188, 1879.
- 947 OKAICHI, T. and IMATOMI, Y. Toxicity of Prorocentrum minimum var. mariae-lebouriae assumed to be a causative agent of short-necked clam poisoning. In, Toxic Dinoflagellate Blooms. (Proc. 2nd Intern. Conf.), Taylor, D.L. and Seliger, H.H. (eds.), Elsevier/North-Holland: N.Y., vol. 1, p. 385, 1979.
- 948 OKAICHI, T. and NISHIO, S. [Identification of ammonia as the toxic principle of red tide, Noctiluca miliaris.] Bull. plankt. Soc. Jpn. 23, 25, 1976.
- 949 OLSON, T.A. Toxic plankton. In, Proceedings. In-Service Training Course in Waterworks Problems. Univ. Mich. Sch. Pub. Hlth: Ann Arbor, p. 86, 1951.
- 950 OSHIMA, Y. and YASUMOTO, T. Analysis of toxins in cultured Gonyaulax excavata cells originating in Ofunato Bay, Japan. In, Toxic Dinoflagellate Blooms. (Proc. 2nd Intern. Conf.), Taylor,

D.L. and Seliger, H.H. (eds.), Elsevier/North-Holland: N.Y., vol. 1, p. 377, 1979.

951 OSHIMA, Y., BUCKLEY, L.J., ALAM, M. and SHIMIZU, Y. Heterogeneity of paralytic shellfish poisons. Three new toxins from cultured Gonyaulax tamar-ensis. Comp. Biochem. Physiol. 57, 31, 1977.

952 OSHIMA, Y., FALLON, W.E., SHIMIZU, Y., NOGUCHI, T. and HASHIMOTO, Y. Toxins of the Gonyaulax sp. and infested bivalves in Owase Bay. Bull. Jpn. Soc. scient. Fish. 42, 851, 1976.

953 O'SULLIVAN, A.J. Red tide on the south coast of Ireland. Mar. Pollut. Bull. 9, 315, 1978.

954 OTTERSTROM, C.F. and STEEMAN-NIELSON, E. [Two cases of extensive mortality in fishes caused by the flagellate Prymnesium parvum Carter.] Rept. Danish Biol. Sta. 44, 1, 1939.

955 PADAN, E., GINSBURG, D. and SHILO, M. Growth and colony formation of the Prymnesium parvum Carter on solid media. J. Protozool. 14, 477, 1967.

956 PADILLA, G.M. Growth and toxigenesis of the chrysomonad Prymnesium parvum as a function of salinity. J. Protozool. 17, 456, 1970.

957 PADILLA, G.M. Factors in the outbreak and control of red tides. Environ. Lett. 9, 122, 1975.

958 PADILLA, G.M. Pharmacological activity of purified toxins Gymnodinium breve and Prymnesium parvum. NATO Conf. Ser. 4, 1, 1977.

959 PADILLA, G.M. and MARTIN, D.F. Interactions of Prymnesium

parvum toxin with erythrocyte membranes. In, Tier und Pflanzengifte/Animal and Plant Toxins. Kaiser, E. (ed.), W. Goldmann: Munich, 1973; see also Marine Pharmacognosy. Action of Marine Biotoxins at the Cellular Level. Martin, D.F. and Padilla, G.M. (eds.), Academic: N.Y., p. 265, 1973; see also Toxicon 10, 532, 1972 (Abst.).

960 PADILLA, G.M. and MARTIN, D.F. Toxins and bioactive compounds in the marine environment. In, Marine Chemistry in the Coastal Environment. Church, J.M. (ed.), Am. Chem. Soc. Symp. Ser. 18, Am. Chem. Soc.: Washington, p. 596, 1975.

961 PADILLA, G.M., KIM, Y.S. and MARTIN, D.F. Separation and analysis of toxins isolated from a red-tide sample of Gymnodinium breve. In, Proceedings of the First International Conference on Toxic Dinoflagellate Blooms. Lo Cicero, V.R. (ed.), Mass. Sci. Tech. Found.: Wakefield, Mass., p. 249, 1974.

962 PADILLA, G.M., KIM, Y.S., RAUCKMAN, E.J. and ROSEN, G.M. Physiological activities of toxins from Gymnodinium breve isolated by high performance liquid chromatography. In, Toxic Dinoflagellate Blooms. (Proc. 2nd Intern. Conf.), Taylor, D.L. and Seliger, H.H. (eds.), Elsevier/North-Holland: N.Y., vol. 1, p. 351, 1979.

963 PADILLA, G.M., KIM, Y.S., WESTERFIELD, M., RAUCKMANN, E. and MOORE, J.W. Pharmacological activities of purified toxins from Gymnodinium breve and Prymnesium parvum. In, Marine Natural Products Chemistry. Faulkner, D.J. and Fenical, W.H. (eds.), Plenum: N.Y., 1977.

- 964 PARMENTIER, J.L., NARAHASHI, T., WILSON, W.A. et al. Electrophysiological and Biochemical characteristics of Gymnodinium breve toxins. Toxicon 16, 235, 1978.
- 965 PARNAS, I. Properties and pharmacological effects of ichthyotoxin from axenic cultures of Prymnesium parvum. Thesis, Hebrew Univ., 1963.
- 966 PARNAS, I. The toxicity of Prymnesium parvum. (Review). Israel J. Zool. 12, 13, 1963.
- 967 PARNAS, I. and ABBOTT, B.C. Physiological activity of the ichthyotoxin from Prymnesium parvum. Toxicon 3, 133, 1965.
- 968 PARNAS, I. and SPIEGELSTEIN, M. Effect of illumination on ichthyotoxic activity of Prymnesium parvum Carter in an axenic culture and in fish ponds. Bull. Fish Culture, Israel 15, 50, 1963.
- 969 PARNAS, I., BERGMANN, F. and REICH, K. Pharmacological effects of ichthyotoxin of the phytoflagellate Prymnesium parvum. Bull. Res. Council Israel 10E, 225, 1963; see also Toxicon 3, 133, 1965.
- 970 PARNAS, I., REICH, K. and BERGMANN, F. Photoinactivation of ichthyotoxin from axenic culture of Prymnesium parvum Carter. Appl. Microbiol. 10, 227, 1962.
- 971 PASTER, Z. Purification and properties of prymnesin, the toxin formed by Prymnesium parvum (Chrysomonadinae). Ph.D. thesis, Hebrew University, Jerusalem, Israel, 1968.
- 972 PASTER, Z. Prymnesin: the toxin of Prymnesium parvum Carter. Rev. intern. Océanogr. méd. 10, 249, 1968.
- 973 PASTER, Z. Action of Gymnodinium breve neurotoxin on skeletal muscle. In, Tier und Pflanzen-gifte/Animal and Plant Toxins. Kaiser, E. (ed.), W. Goldmann: Munich, p. 113, 1973; see also Toxicon 10, 532, 1972 (Abst.).
- 974 PASTER, Z. Pharmacognosy and mode of action of Prymnesium. In, Marine Pharmacognosy. Action of Marine Biotoxins at the Cellular Level. Martin, D.F. and Padilla, G.M. (eds.), Academic: N.Y., p. 241, 1973.
- 975 PASTER, Z. and ABBOTT, B.C. Hemolysis of rabbit erythrocytes by Gymnodinium breve toxin. Toxicon 7, 254, 1961.
- 976 PASTER, Z. and ABBOTT, B.C. Gibberellic acid: a growth factor in the unicellular alga Gymnodinium breve. Science 169, 600, 1970.
- 977 PASTER, Z., REICH, K., BERGMANN, F. and RAHAT, M. Studies on the growth of Prymnesium parvum Carter (Chrysomonadina) and on the formation of its toxin (prymnesin). Experientia 22, 790, 1966.
- 978 PATTON, S., CHANDLER, P.T., KALAN, E.B. et al. Food value of red tide (Gonyaulax polyedra). Science 158, 789, 1967.
- 979 PAWALOWSKY, E.N. Gifttiere und Ihre Giftigkeit. Gustav Fischer: Jena, p. 14, 1927.
- 980 PEARSON, R.C.M., INGHAM, H.R., WOOD, P.C. and DEWAR, H.A. An epidemic of mussel poisoning in northeast England. Lancet (2), 676, 1968.
- 981 PEARY, J. and GORHAM, P. Influence of light and temperature on growth and toxin production by Anabaena flos-aquae. J. Phycol. 2 (Suppl.), 3, 1966.

- 982 PELHATE, M. and SATTELLE, D.B. Synthetic saxitoxin selectivity inhibits sodium currents in the cockroach giant axon. J. Physiol. 234, 89, 1978.
- 983 PHILLIPS, C. and BRADY, W.H. Sea Pests: Poisonous or Harmful Sea Life of Florida and the West Indies. Univ. Miami Press: Miami, 78p., 1953.
- 984 PHISALIX, M. Animaux Venimeux et Venins. 2 vols., Masson & Cie: Paris, 1922.
- 985 PIENAAR, R.N. and KLEIZEN, H.G. A comparative study of two species of the toxic alga Prymnesium. Elektronmikros. S. Afr. 6, 55, 1976.
- 986 PINGREE, R.D., HOLLIGAN, P.M. and HEAD, R.N. Survival of dinoflagellate blooms in the western English Channel. Nature 265, 266, 1977.
- 987 PINGREE, R.D., PUGH, P.R., HOLLIGAN, P.M. and FORSTER, G.R. Summer phytoplankton blooms and red tides along tidal fronts in the approaches to the English Channel. Nature 258, 672, 1975.
- 988 POPKISS, M.E.E., HORSTMAN, D.A. and HARPUR, D. Paralytic shellfish poisoning. A report of 12 cases in Cape Town. S. Afr. med. J. 55, 1017, 1979.
- 989 PRAKASH, A. Status of paralytic shellfish poisoning research in Canada. Proc. Shellf. Sanit. Workshop, Nov. 1961, Appendix. Washington, 1962.
- 990 PRAKASH, A. Source of paralytic shellfish toxin in the Bay of Fundy. J. Fish. Res. Bd. Can. 20, 983, 1963.
- 991 PRAKASH, A. Physiological ecology of the causative organisms including mechanisms of toxin accumulation in shellfish. In, Proceedings of the Joint Sanitation Seminar on North Pacific Clams. Felsing, W.A., Jr. (ed.), Govt. Print. Off.: Washington, p. 8, 1965.
- 992 PRAKASH, A. Growth and toxicity of a marine dinoflagellate, Gonyaulax tamarensis. J. Fish. Res. Bd. Can. 24, 1389, 1967.
- 993 PRAKASH, A. Dinoflagellate blooms—an overview. In, Proceedings of the First International Conference on Toxic Dinoflagellate Blooms. LoCicero, V.R. (ed.), Mass. Sci. Tech. Found.: Wakefield, Mass., p. 1, 1975.
- 994 PRAKASH, A. Land drainage as a factor in "red tide" development. Environ. Lett. 9, 121, 1975.
- 995 PRAKASH, A. and MEDCOF, J.C. Hydrographic and meteorological factors affecting shellfish toxicity at Head Harbour, New Brunswick. J. Fish. Res. Bd. Can. 19, 101, 1962.
- 996 PRAKASH, A. and STEIDINGER, K. Development of a rapid international communication network. In, Toxic Dinoflagellate Blooms. (Proc. 2nd Intern. Conf.), Taylor, D.L. and Seliger, H.H. (eds.), Elsevier/North-Holland: N.Y., vol. 1, p. 474, 1979.
- 997 PRAKASH, A. and TAYLOR, F. A "red bloom" of Gonyaulax catenella in the Strait of Georgia and its relation to paralytic shellfish toxicity. J. Fish. Res. Bd. Can. 28, 1265, 1966.
- 998 PRAKASH, A. and VISWANATHA SARMA, A.H. On the occurrence of "red water" phenomenon on the

west coast of India. Curr. Sci. 33, 168, 1964.

999 PRESCOTT, G.W. Objectionable algae with reference to the killing of fish and other animals. Hydrobiologia 1, 1, 1948.

1000 PRESCOTT, G.W. The Algae: A Review. Houghton-Mifflin: Boston, 1968.

1001 PRICE, J.H. Paralytic shellfish poisoning in Papua, New Guinea. Pac. Sci. 29, 1, 1975.

1002 PRINGLE, B.H. Analytical procedures for paralytic shellfish poison. In, Proceedings of the Joint Sanitation Seminar on North Pacific Clams. Felsing, W.A., Jr., (ed.), Govt. Print. Off.: Washington, p. 16, 1965.

1003 PRINGLE, B.H. Pharmacology of paralytic shellfish poison. In, Proceedings of the Joint Sanitation Seminar on North Pacific Clams. Felsing, W.A., Jr., (ed.), Govt. Print. Off.: Washington, p. 22, 1965.

1004 PROCTOR, N.H., CHAN, S.L. and TAYLOR, A.J. Production of saxitoxin by cultures of Gonyaulax catenella. Toxicon 13, 1, 1975.

1005 PROVASOLI, L. Recent progress—an overview. In, Toxic Dinoflagellate Blooms. (Proc. 2nd Intern. Conf.), Taylor, D.L. and Seliger, H.H. (eds.), Elsevier/North-Holland: N.Y., vol. 1, p. 1, 1979.

1006 QUAYLE, D. Fisheries Research Board of Canada, Nanaimo, British Columbia. In, Proceedings of the Joint Sanitation Seminar on North Pacific Clams. Felsing, W.A., Jr., (ed.), Govt. Print. Off.: Washington, p. 7, 1965.

1007 QUAYLE, D. Animal detoxification. In, Proceedings of the Joint Sanitation Seminar on North Pacific Clams. Felsing, W.A., Jr., (ed.), Govt. Print. Off.: Washington, p. 11, 1965.

1008 QUICK, J.A., JR. Evidence of new ichthyointoxicative phenomena in Gymnodinium breve red tides. In, Proceedings of the First International Conference on Toxic Dinoflagellate Blooms. LoCicero, V.R. (ed.), Mass. Sci. Tech. Found.: Wakefield, Mass., p. 413, 1975.

1009 RAHAT, M. and JAHN, T.L. Growth of Prymnesium parvum in the dark; note on ichthyotoxin formation. J. Protozool. 12, 246, 1965.

1010 RAHAT, M. and KUSHNIR, M. Toxin synthesis in dark and light grown cultures of Prymnesium parvum. In, Toxins of Animal and Plant Origin. De Vries, A. and Korchva, E. (eds.), Gordon & Breach: N.Y., 1971; see also Toxicon 8, 146, 1970 (Abst.).

1011 RAHAT, M. and REICH, K. The B₁₂ vitamins and growth of the dinoflagellate Prymnesium parvum. J. gen. Microbiol. 31, 195, 1963.

1012 RAHAT, M. and REICH, K. The B₁₂ vitamins and methionine in the metabolism of Prymnesium parvum. J. gen. Microbiol. 31, 203, 1963.

1013 RAMA MURTHY, J. and CAPIN DALE, J.G. A new isolation and structure for the endotoxin Microcystis aeruginosa NRC-1. Can. J. Biochem. 48, 508, 1970.

1014 RANDALL, J. A review of ciguatera, tropical fish poisoning, with a tentative explanation of its cause. Bull. mar. Sci. Gulf Caribb. 8, 236, 1958.

- 1015 RANDALL, J.E. Marine algae as a possible source of ciguatera toxins. S. Pac. Comm. Q. Bull., 1968.
- 1016 RAY, S.M. The public health significance of *Gymnodinium breve*. U.S. Fish Wildl. Serv. Spec. Sci. Rept., Fisheries (521), 1965.
- 1017 RAY, S.M. Paralytic shellfish poisoning: a status report. Curr. Top. comp. Pathobiol. 1, 171, 1971.
- 1018 RAY, S.M. Isolation, physicochemical, and toxicologic characterization of toxins from *Gymnodinium breve* Davis. In, Proceedings of the First International Conference on Toxic Dinoflagellate Blooms. LoCicero, V.R. (ed.), Mass. Sci. Tech. Found.: Wakefield, Mass., p. 309, 1975.
- 1019 RAY, S.M. and ALDRICH, D.V. *Gymnodinium breve*: induction of shellfish poisoning in chicks. Science 148, 1748, 1965.
- 1020 RAY, S.M. and ALDRICH, D.V. Ecological interactions of toxic dinoflagellates and molluscs in the Gulf of Mexico. In, Animal Toxins. Russell, F.E. and Saunders, P.R. (eds.), Pergamon: Oxford, p. 75, 1967; see also Toxicon 4, 298, 1967 (Abst.).
- 1021 RAY, S.M. and WILSON, W.B. Effects of a unialgal and bacteria-free culture of *Gymnodinium breve* on fish and notes on related studies with bacteria. U.S. Fish Wildl. Serv., Fish. Bull. 57, 469, 1957.
- 1022 RAYMONT, J.E. Plankton and Productivity in the Oceans. Pergamon: Oxford, 660p., 1963.
- 1023 READ, B.E. Chinese materia medica: turtle and shellfish drugs. Peking Nat. Hist. Bull., 81p., 1937.
- 1024 REICH, K. and ASCHNER, M. Mass development and control of the phytoflagellate *Prymnesium parvum* in fishponds in Palestine. Palestine J. Bot. Ser. J 4, 14, 1947.
- 1025 REICH, K. and KAHN, J. A bacteria-free culture of *Prymnesium parvum* (Chrysomonadina). Bull. Res. Council Israel 4, 144, 1954.
- 1026 REICH, K. and PARNAS, I. Effect of illumination on ichthyotoxin in an axenic culture of *Prymnesium parvum* Carter. J. Protozool. 9, 38, 1962.
- 1027 REICH, K. and ROTHBERG, M. Some factors influencing the formation of toxin poisonous to fish in bacteria-free cultures of *Prymnesium*. Bull. Res. Council Israel 7B(3/4), 199, 1958.
- 1028 REICH, K. and SPIEGELSTEIN, M. Fish toxins in *Ochromonas* (Chrysomonadina). Israel J. Zool. 13, 141, 1964.
- 1029 REICH, K., BERGMANN, F. and KIDRON, M. Studies on the homogeneity of prymnesin, the toxin isolated from *Prymnesium parvum* Carter. Toxicon 3, 33, 1965.
- 1030 REICHARDT, P.B., NEVE, R.A. and GERSHEY, R.M. Chemical investigations on paralytic shellfish poisoning in Alaska. Alaska Sea Grant Program, Rept. 78-3, 56p., 1978.
- 1031 REID, P.C. Toxic dinoflagellates and tidal power generation in the Bay of Fundy, Canada. Mar. Pollut. Bull. 11, 47, 1980.
- 1032 REINECKE, P. *Gonyaulax grindley*, sp. nov.: a dinoflagellate causing

- red tide at Elanis Bay, Cape Province, in December 1966. J. S. Afr. Bot. **33**, 157, 1967.
- 1033 REINKE, J., UTHE, J.F., FREEMAN, H.O. and JOHNSTON, J.R. The determination of arsenite and arsenate ions in fish and shellfish by selective extraction and polarography. Environ. Lett. **8**, 371, 1975.
- 1034 REYES-VASQUEZ, G., FERRAZ-REYES, E. and VASQUEZ, E. Toxic dinoflagellate blooms in northeastern Venezuela during 1977. In, Toxic Dinoflagellate Blooms. (Proc. 2nd Intern. Conf.), Taylor, D.L. and Seliger, H.H. (eds.), Elsevier/North-Holland: N.Y., vol. 1, p. 191, 1979.
- 1035 REYNOLDS, C.S. Cattle deaths and blue-green algae: a possible instance from Cheshire, England. J. Inst. Water Eng. Sci. **34**, 74, 1980.
- 1036 RHODEN, V.A. and GOLDIN, S.M. The binding of saxitoxin to axolemma of mammalian brain. Co-operative competition between saxitoxin and sodium ion. J. biol. Chem. **254**, 1199, 1979.
- 1037 RICKETTS, T.R. On the chemical composition of some unicellular algae. Phytochemistry **5**, 67, 1966.
- 1038 RIEGEL, B., STANGER, D.W., WIKHOLM, D.M., MOLD, J.D. and SOMMER, H. Paralytic shellfish poisoning. IV. Bases accompanying the poison. J. biol. Chem. **177**, 1, 1949.
- 1039 RIEGEL, B., STANGER, D.W., WIKHOLM, D.M., MOLD, J.D. and SOMMER, H. Paralytic shellfish poisoning. V. The primary source of the poison, the marine plankton organism, Gonyaulax catenella. J. biol. Chem. **177**, 7, 1949.
- 1040 RINEHART, K.L., JR., NABABSing, P. and HAGER, L.P. Identification of antimicrobial, antiviral and cytotoxic agents in marine algae and sponges. Lloydia **40** (6), 608, 1977.
- 1041 RISK, M., LIN, Y.Y., SADAGOPARAMANUJAM, V.M. et al. High pressure liquid chromatographic separation of two major toxic compounds from Gymnodinium breve Davis. J. chromatogr. Sci. **17**, 400, 1979.
- 1042 RISK, M., LIN, Y.Y., MAC FARLANE, R.D. et al. Purification and chemical studies on a major toxin from Gymnodinium breve. In, Toxic Dinoflagellate Blooms. (Proc. 2nd Intern. Conf.), Taylor, D.L. and Seliger, H.H. (eds.), Elsevier/North-Holland: N.Y., vol. 1, p. 335, 1979.
- 1043 RISK, M., WERRBACH-PEREZ, K., PEREZ-POLO, J.R. et al. Mechanism of action of the major toxin from Gymnodinium breve Davis. In, Toxic Dinoflagellate Blooms. (Proc. 2nd Intern. Conf.), Taylor, D.L. and Seliger, H.H. (eds.), Elsevier/North-Holland: N.Y., vol. 1, p. 367, 1979.
- 1044 RITCHIE, J.M. Mechanism of action of local anaesthetic agents and biotoxins. Br. J. Anaesth. **47**, 191, 1975.
- 1045 RITCHIE, J.M. Binding of tetrodotoxin and saxitoxin to sodium channels. Phil. Trans. Roy. Soc. **270**, 319, 1975.
- 1046 RITCHIE, J.M. Tetrodotoxin and saxitoxin, and the sodium channels of excitable tissue. Trends Pharmacol. Sci. **1**, 275, 1980.

- 1047 RITCHIE, J.M. and ROBERT, R.B. The binding of labelled saxitoxin to normal and denervated muscle. J. Physiol. 263, 129, 1976.
- 1048 RITCHIE, J.M., ROBERT, R.B. and STRICHARTZ, G. Binding to nerve and muscle of saxitoxin labelled by a new method of tritium exchange. J. Physiol. 258, 99, 1976.
- 1049 ROBERTS, B.S. Occurrence of Gymnodinium breve red tides along the West and East coasts of Florida during 1976 and 1977. In, Toxic Dinoflagellate Blooms. (Proc. 2nd Intern. Conf.), Taylor, D.L. and Seliger, H.H. (eds.), Elsevier/North-Holland: N.Y., vol. 1, p. 199, 1979.
- 1050 ROBERTS, B.S., HENDERSON, G.E. and MEDLYN, R.A. The effects of Gymnodinium breve toxin(s) on selected mollusks and crustaceans. In, Toxic Dinoflagellate Blooms. (Proc. 2nd Intern. Conf.), Taylor, D.L. and Seliger, H.H. (eds.), Elsevier/North-Holland: N.Y., vol. 1, p. 419, 1979.
- 1051 ROBINSON, G.A. Distribution of Gonyaulax tamarensis Lebour in the western North Sea in April, May, and June 1968. Nature 220, 22, 1968.
- 1052 ROSE, E. Toxic algae in Iowa lakes. Proc. Iowa Acad. Sci. 60, 738, 1953.
- 1053 ROUND, F.E. The Biology of Algae. E. Arnold: London, 278p., 1973.
- 1054 ROUNSEFELL, G.A. and DRAGOVICH, G.A. Correlation between oceanographic factors and abundance of the Florida red-tide (Gymnodinium breve Davis) 1954-61. Bull. mar. Sci. 16, (3), 404, 1966.
- 1055 ROUNSEFELL, G.A. and NELSON, W.R. Status of red tide research in 1964. U.S. Fish Wildl. Serv. Tech. Rept. (64-1), 192p., 1964.
- 1056 ROUNSEFELL, G.A. and NELSON, W.R. Red-tide research summarized to 1964 including an annotated bibliography. U.S. Fish Wildl. Serv. Spec. Sci. Rept. (535), 1966.
- 1057 ROY, R.N. Red tide and outbreak of paralytic shellfish poisoning in Sabah. Med. J. Malaysia 31, 247, 1977.
- 1058 RUGGIERI, G.D. Drugs from the sea. Marine organisms with novel chemical constituents are excellent sources of new drugs. Science 194, 491, 1976.
- 1059 RUGGIERI, G.D., NIGRELLI, R.F. and MC LAUGHLIN, J.J.A. The effects of dinoflagellate toxin on development of Arbacia punctulata. Am. Zool. 2, 366, 352, 1962.
- 1060 RUNNEGAR, M.T.C. and FALCONER, I.R. Isolation of toxin from a naturally-occurring algal bloom of Microcystis-aeruginosa (= Anacystis cyanea). Proc. Austral. Biochem. Soc. 8, 5, 1975.
- 1061 RUSSELL, F.E. Venomous and poisonous marine animals and their toxins. First Inter-Amer. Naval Res. Conf., San Juan, Puerto Rico, 37p., 1965.
- 1062 RUSSELL, F.E. Marine toxins and venomous and poisonous marine animals. In, Advances in Marine Biology. Russell, F.S. (ed.), Academic: London, vol. 3, p. 255, 1965.
- 1063 RUSSELL, F.E. Toxic marine animals. Naval Res. Rev. 19, 20, 1966.

- 1064 RUSSELL, F.E. Injuries by venomous animals. Am. J. Nursing 66, 1322, 1966.
- 1065 RUSSELL, F.E. Injuries by venomous animals. Natn. Clearinghouse for Poison Control Centers, U.S. Dept. Hlth., Ed., Wlfr., U.S.P.H.S., Jan.-Feb., 1967.
- 1066 RUSSELL, F.E. Comparative pharmacology of some animal toxins. Fed. Proc. 26, 1206, 1967.
- 1067 RUSSELL, F.E. Pharmacology of animal venoms. Clin. Pharmacol. Therap. 8, 849, 1967.
- 1068 RUSSELL, F.E. Poisonous marine animals. In, The Safety of Foods. Graham, H.D. (ed.), Avi Publ.: Westport, Conn., p. 68, 1968.
- 1069 RUSSELL, F.E. Poisonous Marine Animals. T.F.H. Publ.: Neptune City, N.J., 176p., 1971.
- 1070 RUSSELL, F.E. Pharmacology of toxins of marine origin. In, International Encyclopedia of Pharmacology and Therapeutics. Raskova, H. (ed.), Pergamon: Oxford, Sect. 71, vol. 2, p. 3, 1971.
- 1071 RUSSELL, F.E. Venomous animal injuries. In, Current Problems in Pediatrics. Gluck, L. (ed.), Year Book Med. Publ.: Chicago, vol. 3, p. 1, 1973.
- 1072 RUSSELL, F.E. Animal venoms. In, Practice of Medicine. Wlber, P.G.H. (ed.), Harper & Row: Hagerstown, Maryland, vol. IX, chap. 30, p. 1, 1975.
- 1073 RUSSELL, F.E. Poisonous and venomous marine animals and their toxins. Ann. N.Y. Acad. Sci. 245, 57, 1975.
- 1074 RUSSELL, F.E. Venom poisoning: snakes, arthropods and marine animals. Emergency Medicine Symposium III, Univ. Calif., San Diego, 1978-81.
- 1075 RUSSELL, F.E. and CARLSON, R.W. Marine organisms. In, Biology Data Book. Altman, P.L. and Dittmer, D.S. (eds.), F.A.S.E.B.: Washington, p. 726, 1973.
- 1076 SAKSHAUG, E. and JENSEN, A. Gonyaulax tamarensis and paralytic mussel toxicity in Trondheimsfjorden, 1963-1969. K. norske. Vidensk. Selsk. Skr. 15, I, 1971.
- 1077 SAMS, W.M. Seabather's eruption. Arch. Derm. Syph. 60, 227, 1949.
- 1078 SANTOS-PINTOS, J. DOS. Un caso de "red water" motivado por abundancia anormal de Goniaulax poliedro Stein. Bull. Soc. Portug. Sci. nat. 17, 94, 1949.
- 1079 SANTOS-PINTOS, J. DOS and DE SOUSA E SILVA, E. The toxicity of Cardium edule L. and its possible relation to the dinoflagellate Prorocentrum micans Ehr. Notas Estud. Inst. Biol. Maritima (12), 1, 1956.
- 1080 SAPEIKA, N. Mussel poisoning. S. Afr. med. J. 22, 337, 1948.
- 1081 SASNER, J.J. A study of the toxin produced by the Florida red tide dinoflagellate, Gymnodinium breve Davis. Dissertation, Univ. Calif., Los Angeles, 1965.
- 1082 SASNER, J.J. Comparative studies on algal toxins. In, Marine Pharmacognosy. Action of Marine Biotoxins at the Cellular Level. Martin, D.F. and Padilla, G.M. (eds.), Academic: N.Y., p. 127, 1973.
- 1083 SASNER, J.J., JR. Purification of two Gonyaulax tamarensis toxins from clams (Mya arenaria) and

- the identification of saxitoxin. In, Proceedings of the First International Conference on Toxic Dinoflagellate Blooms. LoCicero, V.R. (ed.), Mass. Sci. Tech. Found.: Wakefield, Mass., p. 423, 1975.
- 1084 SASNER, J.J., IKAWA, M., THURBERG F. and ALAM, M. Physiological and chemical studies on *Gymnodinium breve* Davis toxin. Toxicon 10, 163, 1972.
- 1085 SAWYER, P., GENTILE, J. and SASNER, J. Demonstration of a toxin from *Aphanizomenon flos-aquae* (L.) Ralfs. Can. J. Microbiol. 14, 1199, 1968.
- 1086 SCHANTZ, E.J. Biochemical studies on paralytic shellfish poisons. Ann. N.Y. Acad. Sci. 90, 843, 1960.
- 1087 SCHANTZ, E.J. Studies on the paralytic poisons found in mussels and clams along the North American Pacific coast. Tenth Pacif. Sci. Cong., Honolulu, p. 450, 1961 (Abst.).
- 1088 SCHANTZ, E.J. Symposium on the chemistry of toxic substances. II. Some chemical and physical properties of paralytic shellfish poisons related to toxicity. J. med. pharm. Chem. 4, 459, 1961.
- 1089 SCHANTZ, E.J. Studies on the paralytic poisons found in mussels and clams along the North American Pacific coast. In, Venomous and Poisonous Animals and Noxious Plants of the Pacific Region. Keegan, H.L. and MacFarlane, W.V. (eds.), Pergamon: Oxford, p. 75, 1963.
- 1090 SCHANTZ, E.J. Chemical studies on shellfish poisons. In, Proceedings of the Joint Sanitation Seminar on North Pacific Clams. Felsing, W.A., Jr. (ed.), Govt. Print. Off.: Washington, p. 18, 1965.
- 1091 SCHANTZ, E.J. Biochemical studies on purified *Gonyaulax catenella* poison. In, Animal Toxins. Russell, F.E. and Saunders, P.R. (eds.), Pergamon: Oxford, p. 91, 1967; see also Toxicon 4, 294, 1967 (Abst.).
- 1092 SCHANTZ, E. Biochemical studies on certain algal toxins. In, Biochemistry of Some Foodborne Microbial Toxins. Matales, R. and Wogan, G. (eds.), M.I.T. Press: Cambridge, Mass., p. 51, 1967.
- 1093 SCHANTZ, E.J. Algal toxins. In, Properties and Products of Algae. Zajic, E.J. (ed.), Plenum: N.Y., p. 84, 1969.
- 1094 SCHANTZ, E.J. The dinoflagellate poisons. In, Microbial Toxins. Algal and Fungal Toxins. Kadis, S., Ciegler, A. and Aji, S.J. (eds.), Academic: N.Y., vol. 7, p. 3, 1971.
- 1095 SCHANTZ, E.J. Seafood toxicants. In, Toxicants Occurring Naturally in Foods. Natn. Acad. Sci.: Washington, p. 424, 1973.
- 1096 SCHANTZ, E.J. Poisonous red tide organisms. Environ. Lett. 9 (3), 225, 1975.
- 1097 SCHANTZ, E.J. and MAGNUSSON, H.W. Observations on the origin of the paralytic poison in Alaska butter clam. J. Protozool. 11, 239, 1964.
- 1098 SCHANTZ, E.J., MC FARREN, E.F., SCHAFER, M.L. and LEWIS, K.H. Purified shellfish poison for bioassay standardization. J. Assoc. Off. agric. Chem. 41, 160, 1958.
- 1099 SCHANTZ, E.J., LYNCH, J.M., VAYVADA, G., MATSUMOTO, K. and RAPOPORT, H. The purification and characterization of

- the poison produced by Gonyaulax catenella in axenic culture. Biochemistry 5, 1191, 1966.
- 1100 SCHANTZ, E.J., GHAZAROSSIAN, V.E., SCHNOES, H.K. et al. The structure of saxitoxin. J. Am. chem. Soc. 97, 1238, 1975.
- 1101 SCHANTZ, E.J., GHAZAROSSIAN, V.E., SCHNOES, H.K. et al. Paralytic poisons from marine dinoflagellates. In, Proceedings of the First International Conference on Toxic Dinoflagellate Blooms. LoCicero, V.R. (ed.), Mass. Sci. Tech. Found.: Wakefield, Mass., p. 267, 1975.
- 1102 SCHANTZ, E.J., MOLD, J.D., HOWARD, W. et al. Paralytic shellfish poison VIII. Some chemical and physical properties of purified clam and mussel poisons. Can. J. Chem. 39, 2117, 1961.
- 1103 SCHANTZ, E.J., MOLD, J.D., STANGER, D.W. et al. Paralytic shellfish poison VI. A procedure for the isolation and purification of the poison from toxic clam and mussel tissues. J. Am. chem. Soc. 79, 5230, 1957.
- 1104 SCHEUER, P.J. The chemistry of toxins isolated from some marine organisms. Fortschr. Chem. org. Naturst. 22, 265, 1964.
- 1105 SCHEUER, P.J. Toxins from marine invertebrates. Naturwissenschaften 58, 549, 1971.
- 1106 SCHEUER, P.J. Chemistry of Marine Natural Products. Academic: N.Y., 1973.
- 1107 SCHEUER, P.J. Recent developments in the chemistry of marine toxins. Lloydia 38, 1, 1975.
- 1108 SCHEUER, P.J. Marine toxins. Acc. chem. Res. 10, 33, 1977.
- 1109 SCHEUER, P.J. Chemical communication of marine invertebrates. BioScience 27, 664, 1977.
- 1110 SCHEUER, P.J., editor. Marine Natural Products: Chemical and Biological Perspectives. 4 vols., Academic: N.Y., 1978-1981.
- 1111 SCHMIDT, R.J. and LOEBLICH, A.R., III. Distribution of paralytic shellfish poison among Pyrrophyta. J. mar. Biol. Assoc. U.K. 59, 479, 1979.
- 1112 SCHMIDT, R.J. and LOEBLICH, A.R., III. A discussion of the systematics of toxic Gonyaulax species containing paralytic shellfish poison. In, Toxic Dinoflagellate Blooms. (Proc. 2nd Intern. Conf.), Taylor, D.L. and Seliger, H.H. (eds.), Elsevier/North-Holland: N.Y., vol. 1, p. 83, 1979.
- 1113 SCHMADIE, J. and BLISS, C.A. The cultivation and toxicity of Gonyaulax polyedra. Lloydia 25, 214, 1962.
- 1114 SCHWIMMER, D. and SCHWIMMER, M. Algae and medicine. In, Algae and Man. Jackson, D. (ed.), Plenum: N.Y., p. 365, 1964.
- 1115 SCHWIMMER, D. and SCHWIMMER, M. Medical aspects of phycology. In, Algae, Man and the Environment. Jackson, D. (ed.), Syracuse Univ. Press: Syracuse, N.Y., p. 279, 1968.
- 1116 SCHWIMMER, M. and SCHWIMMER, D. The Role of Algae and Plankton in Medicine. Grune & Stratton: N.Y., 85p., 1955.
- 1117 SELVESTER, J.R., DAMMANN, A.E. and DEWEY, R.A. Ciguatera in the U.S. Virgin Islands. Mar. Fish. Rev. 39, 14, 1977.
- 1118 SHELUBSKY, M. Observations on the properties of a toxin produced

- by Microcystis. Proc. intern. Assoc. theor. appl. Limnol. 11, 362, 1951.
- 1119 SEVILLE, R.H. Dogger bank itch. Report of a case. Br. J. Derm. 69, 92, 1957.
- 1120 SHIAU LIN, S.-Y., HUANG, M.-C., TSENG, W.C. and LEE, C.Y. Comparative studies on the biological activities of cardiotoxin, melittin and prymnesin. N.-S. Arch. exp. Path. Pharmac. 287, 349, 1975.
- 1121 SHIER, W.T. Activation of self-destruct mechanisms by cytolytic toxins. Toxicon 17 (Suppl. 1), 166, 1979.
- 1122 SHILO, M. Review of toxigenic algae. Vehr. Int. Verein. Limnol. p. 782, 1964.
- 1123 SHILO, M. The cytotoxic principle of the phytoflagellate Prymnesium parvum. J. Cell Biol. 28, 461, 1966.
- 1124 SHILO, M. Formation and mode of action of algal toxins. Bacteriol. Rev. 31, 180, 1967.
- 1125 SHILO, M. The action of Prymnesium parvum toxin on biological membranes. 2nd Intern. Symp. Animal Toxins, Tel Aviv, p. 83, Feb. 1970; see also Toxicon 8, 153, 1970 (Abst.).
- 1126 SHILO, M. Toxins of Chrysophyceae. In, Microbial Toxins. Kadis, S., Ciegler, A., and Ajl, S. (eds.), Academic: N.Y., vol. 7, p. 67, 1971.
- 1127 SHILO, M. Toxigenic algae. In, Progress in Microbiology. Hockenhull, D.J.D. (ed.), Churchill Livingstone: London, vol. II, p. 233, 1972.
- 1128 SHILO, M. and ASCHNER, M. Factors governing the toxicity of cultures containing the phytoflagellate Prymnesium parvum Carter. J. gen. Microbiol. 8, 333, 1953.
- 1129 SHILO, M. and ROSENBERGER, R.F. Studies on the toxic principles formed by the chrysomonad Prymnesium parvum Carter. Ann. N.Y. Acad. Sci. 90, 866, 1960.
- 1130 SHILO, M. and SHILO, M. (SHELUBSKY). Conditions which determine the efficiency of ammonium sulphate in the control of Prymnesium parvum in fish breeding ponds. Appl. Microbiol. 1, 330, 1953.
- 1131 SHILO, M. and SHILO, M. (SHELUBSKY). Control of the phytoflagellate Prymnesium parvum. Proc. intern. Assoc. theor. appl. Limnol. 12, 233, 1955.
- 1132 SHILO, M. and SHILO, M. (SHELUBSKY). Osmotic lysis of Prymnesium parvum by weak electrolytes. Bull. Res. Council Israel 6E, (3), 11, 1957; see also Verh. intern. Verein. Limnol. 14, 905, 1961.
- 1133 SHILO, M. and SHILO, M. (SHELUBSKY). The mechanism of lysis of Prymnesium parvum by weak electrolytes. J. gen. Microbiol. 29, 645, 1962.
- 1134 SHILO, M., ASCHNER, M. and SHILO, M. (SHELUBSKY). The general properties of the exotoxin of the phytoflagellate Prymnesium parvum. Bull. Res. Council Israel 2, 446, 1953.
- 1135 SHIMIZU, Y. Purification and characterization of toxins from poisonous clams. In, Proceedings of the First International Conference on Toxic Dinoflagellate

Blooms. LoCicero, V.R. (ed.),
Mass. Sci. Tech. Found.: Wake-
field, Mass., p. 275, 1975.

1136 SHIMIZU, Y. Dinoflagellate toxins.
In, Marine Natural Products.
Scheuer, P.J. (ed.), Academic:
N.Y., vol. 1, p. 1, 1978.

1137 SHIMIZU, Y. Compounds from micro
algae, their permeating influence
on the field of marine natural
products. Lloydia 41, (6), 1978.

1138 SHIMIZU, Y. Developments in the
study of paralytic shellfish toxins.
In, Toxic Dinoflagellate Blooms.
(Proc. 2nd Intern. Conf.), Taylor,
D.L. and Seliger, H.H. (eds.),
Elsevier/North-Holland: N.Y.,
vol. 1, p. 321, 1979.

1139 SHIMIZU, Y. and RAGELIS, E. Alter-
natives to the mouse assay. In,
Toxic Dinoflagellate Blooms.
(Proc. 2nd Intern. Conf.), Taylor,
D.L. and Seliger, H.H. (eds.),
Elsevier/North-Holland: N.Y.,
vol. 1, p. 453, 1979.

1140 SHIMIZU, Y., ALAM, M. and
FALLON, W.E. Red-tide toxins
food-drugs from the sea. In,
Food-Drugs from the Sea Pro-
ceedings. Webber, H.H. and
Ruggieri, G.D. (eds.), Mar. Tech.
Soc.: Washington, 1974.

1141 SHIMIZU, Y., ALAM, M.J. and HSU,
C.P. Comparison of toxins in
three isolates of Gonyaulax
tamarensis (Dinophyceae). J.
Phycol. 15, 106, 1979.

1142 SHIMIZU, Y., HSU, C.P. and
M^oRCHAND, A. Paralytic shell-
fish toxins in the sea scallop
Placopectan magellanicus, in the
Bay of Fundy. J. Fish. Res. Bd.
Can. 36, 32, 1979.

1143 SHIMIZU, Y., ALAM, M., OSHIMA,
Y. and FALLON, W.E. Presence
of four toxins in red tide infested

clams and cultured Gonyaulax
tamarensis cells. Biochim.
Biophys. res. Commun. 66, 731,
1975.

1144 SHIMIZU, Y., ALAM, M., OSHIMA,
Y. et al. Chemistry and distribu-
tion of deleterious dinoflagellate
toxins. In, Marine Natural Pro-
ducts Chemistry. Faulkner, D.J.
and Fenical, W.H. (eds.), Plenum:
N.Y., p. 261, 1977.

1145 SHIMIZU, Y., BUCKLEY, L.J.,
ALAM, M. et al. Structures of
gonyautoxin II and III from the
east coast toxic dinoflagellate
Gonyaulax tamarensis. J. Am.
chem. Soc. 98, 5414, 1976.

1146 SHIMIZU, Y., HSU, C., FALLON,
W.E. et al. Structure of neosaxi-
toxin. J. Am. chem. Soc. 100 (21),
6791, 1979.

1147 SHOPTAUGH, N.H., BUCKLEY,
L.J., IKAWA, M. and SASNER,
J.J., JR. Detection of Gonyaulax
toxins and other guanidine com-
pounds on thin-layer silica gel
chromatograms. Toxicon 16, 509,
1978.

1148 SHOUKIMAS, J.J., SIGER, A. and
ABBOTT, B.C. The action of G.
breve neurotoxin on membrane
conductance. In, Toxic Dino-
flagellate Blooms. (Proc. 2nd
Intern. Conf.), Taylor, D.L. and
Seliger, H.H. (eds.), Elsevier/
North-Holland: N.Y., vol. 1,
p. 425, 1979.

1149 SIEVERS, A.M. Comparative tox-
icity of Gonyaulax monilata and
Gymnodinium breve to annelids,
crustaceans, molluscs and a fish.
J. Protozool. 16, 401, 1969.

1150 SILVA, E.S. "Red Water" por Exuvia-
ella baltica Lohm. com simu-
tânea mortandade de peixe nas
águas litorais de Angola.
Trabalhos Missão Biol. Marítima
(Lisboa), 1953 (publ. 1956).

- 1151 SILVA, E.S. Some observations on marine dinoflagellate cultures; II. Glenodinium foliaceum Stein and Gonyaulax diacantha (Meunice) Schiller. Botan. Marina 3, 75, 1962.
- 1152 SILVA, E.S. Les "red waters" à la Lagune d'Obidos. Ses causes probables et ses rapports avec la toxicité des bivalves. In, Proceedings of the Fourth International Seaweed Symposium, Biarritz. de Virville, A.D. and Feldman, J. (eds.), Pergamon: N.Y., p. 265, 1971.
- 1153 SIMS, J.J., LIN, G.H.Y., WING, R.M. and FENICAL, W. Marine natural products. Concinniol, a bromoditerpene alcohol from the red alga Laurencia concinna. J.C.S. chem. Commun. 470, 1973.
- 1154 SLOBODKIN, L. A possible initial condition for red tides on the west coast of Florida. J. mar. Res. 12, 148, 1953.
- 1155 SMITH, F.G. Red tide studies. Univ. Miami Mar. Lab., Prelim. Rept., 117p., 1954.
- 1156 SMYTHIES, J.R. A model of the molecular structure of part of the sodium channel. In, Advances in Cytopharmacology, Vol. 3, Neurotoxins: Tools in Neurobiology. Ceccarelli, B. and Clementi, F. (eds.), Raven Press: N.Y., p. 317, 1979.
- 1157 SNEADER, W. Poisonous red tide. New Scientist 38, 706, 1968.
- 1158 SOLOMON, A.E. and STOUGHTON, R.B. Dermatitis from purified sea algae toxin (debromoaplysinatoxin). Arch. Derm. 114, 1333, 1978.
- 1159 SOMMER, H. The occurrence of the paralytic shell-fish poison in the common sand-crab. Science 76, 574, 1932.
- 1160 SOMMER, H. Marine plankton and paralytic shellfish poisoning. Proc. Sixth Pacif. Sci. Congr. 5, 415, 1939.
- 1161 SOMMER, H. and CLARK, F.N. Effect of red water on marine life in Santa Monica Bay, California. Calif. Fish Game 32, 100, 1946.
- 1162 SOMMER, H. and MEYER, K.F. Mussel poisoning. Calif. west. Med. 42, 423, 1935.
- 1163 SOMMER, H. and MEYER, K.F. Paralytic shellfish poisoning. Arch. Path. 24, 560, 1937.
- 1164 SOMMER, H. and MEYER, K.F. Mussel poisoning—a summary. Week. Bull. Calif. State Dept. pub. Hlth. 20, 53, 1941.
- 1165 SOMMER, H., WHEDON, W.F., KOFOID, C.A. and STOHLER, R. Relation of paralytic shellfish poison to certain plankton organisms of the genus Gonyaulax. Arch. Path. 24, 537, 1937.
- 1166 SOMMER, H., MONNIER, R.P., RIEGEL, B. et al. Paralytic shellfish poison. I. Occurrence and concentration by ion exchange. J. Am. chem. Soc. 70, 1015, 1948.
- 1167 SOMMER, H., RIEGEL, B., STANGER, D.W. et al. Paralytic shellfish poison. II. Purification by chromatography. J. Am. chem. Soc. 70, 1019, 1948.
- 1168 SOUTHCOTT, R.V. Human injuries from invertebrate animals in the Australian Seas. Clin. Toxicol. 3, 617, 1970.
- 1169 SOUTHCOTT, R.V. The neurologic effects of noxious marine creatures. In, Contemporary Neurology Series. Hornabrook, R.W.

- (ed.), F.A. Davis: Philadelphia, Vol. 12, p. 165, 1975.
- 1170 SOUTHCOTT, R.V. Marine envenomation and intoxication in man. In, Neurotoxins. Fundamental and Clinical Advances. Chubb, I.W. and Geffen, L.B. (eds.), Adelaide Univ. Union Press: Adelaide, S. Aust., p. 75, 1979.
- 1171 SOUTHCOTT, R.V. Marine toxins. In, Handbook of Clinical Neurology. Vinken, P.J. and Bruyn, G.W. (eds.), North-Holland: Amsterdam, vol. 37, part 2, p. 27, 1979.
- 1172 SPARKS, A.K. Ecology of paralytic shellfish toxicity in Washington. Res. Fish. Contrib. 116, 26, 1961.
- 1173 SPARKS, A.K. Invertebrate Pathology. Noncommunicable Diseases. Academic: N.Y., 1972.
- 1174 SPARKS, A.K. Physiological ecology of the causative organisms including mechanisms of toxin accumulation in shellfish—continued. In, Proceedings of the Joint Sanitation Seminar on North Pacific Clams. Felsing, W.A., Jr. (ed.), Govt. Print. Off.: Washington, p. 10, 1965.
- 1175 SPARKS, A.K., SRIBHIBHADH, A., CHEW, K.K. and PEREYRA, D. Ecology of paralytic shellfish toxicity in Washington. Res. Fish. Contrib. 139, 39, 1962.
- 1176 SPENCE, I. Long-lasting reversible spastic paresis produced by a halogenated monoterpene isolated from the red algae Plocamium cartilagineum (L.). 7th Intern. Congr. Pharmacol. (85), 1978 (Abst.).
- 1177 SPENCE, I., JAMIESON, D.D. and TAYLOR, K.M. Anticonvulsant activity of farnesylacalone epoxide—a novel marine product. Experientia 35, 238, 1979.
- 1178 SPIEGELSTEIN, M. and SIGER, A. Action of Gymnodinium breve toxin on excitable tissues. Toxicon 10, 523, 1972 (Abst.).
- 1179 SPIEGELSTEIN, M.Y., PASTER, Z. and ABBOTT, B.C. Purification and biological activity of Gymnodinium breve toxins. Toxicon 11, 85, 1973.
- 1180 SPIEGELSTEIN, M., REICH, K. and BERGMANN, F. [The toxic principle of Ochromonas and related Chrysomonadina.] Verh. intern. Verein. Limnol. 17, 738, 1969.
- 1181 SPIKES, J.J., RAY, S.M. and NASH, J.B. Studies of the pharmacology and toxicology of Gymnodinium breve toxin. Pharmacologist 11, 283, 1969.
- 1182 SPIKES, J.J., RAY, S.M., ALDRICH, D.V. and NASH, J.B. Toxicity variations of Gymnodinium breve cultures. Toxicon 5, 171, 1968.
- 1183 SPRINGER, J.P. Paralytic poisons from marine dinoflagellates. In, Proceedings of the First International Conference on Toxic Dinoflagellate Blooms. LoCicero, V.R. (ed.), Mass. Sci. Tech. Found.: Wakefield, Mass., p. 267, 1975.
- 1184 STARR, T.J. Notes on a toxin from Gymnodinium brevis. Texas Rept. Biol. Med. 16, 500, 1958.
- 1185 STARR, T.J., DEIG, E.F. and CHURCH, K.K. Antibacterial and antiviral activities of algal extracts studied by acridine orange staining. Texas Rept. Biol. Med. 20, 271, 1962.
- 1186 STEIDINGER, K.A. Basic factors influencing red tides. In, Proceedings of the First

- International Conference on Toxic Dinoflagellate Blooms. LoCicero, V.R. (ed.), Mass. Sci. Tech. Found.: Wakefield, Mass., p. 152, 1975.
- 1187 STEIDINGER, K.A. Collection, enumeration, and identification of free-living dinoflagellates. In, Toxic Dinoflagellate Blooms. (Proc. 2nd Intern. Conf.), Taylor, D.L. and Seliger, H.H. (eds.), Elsevier/North-Holland: N.Y., p. 435, 1979.
- 1188 STEIDINGER, K.A., BURKLEW, M.A. and INGLE, R.M. Effects of Gymnodinium breve toxin on estuarine animals. In, Marine Pharmacognosy. Action of Marine Biotoxins at the Cellular Level. Martin, D.F. and Padilla, G.M. (eds.), Academic: N.Y., p. 179, 1973.
- 1189 STEIN, D. Poisoning of animals and human beings by algae. S. Afr. J. Sci. 41, 243, 1945.
- 1190 STEVENS, A.A. Investigations on Gymnodinium breve toxins in shellfish. Rept. U.S.P.H.S. Gulf Coast Wat. Hyg. Lab., 85p., 1970.
- 1191 STRICHARTZ, G.R. Marine toxins as probes of excitable membranes. In, Toxic Dinoflagellate Blooms. (Proc. 2nd Intern. Conf.), Taylor, D.L. and Seliger, H.H. (eds.), Elsevier/North-Holland: N.Y., vol. 1, p. 484, 1979.
- 1192 SUBRAHMANYAN, R. On the life history and ecology of Hornellia marina gen. et sp. nov. (Chloromonadineae) causing green discoloration of the sea and mortality among marine organisms off the Malabar coast. Indian J. Fish. 1, 182, 1954.
- 1193 SUDMAN, M. Protothecosis. Am. J. clin. Path. 61, 10, 1974.
- 1194 SUN, H.H. and FENICAL, W. Rhinophthalin and rhinophthalin toxic feeding deterrents from the tropical marine alga Rhinophthalus phoenix. Tetrahedron Lett. (8), 685, 1979.
- 1195 SWEENEY, B.M. Red tides. Nat. Hist. 85 (7), 78, 1976.
- 1196 SWEENEY, B. Organisms: opening address. In, Toxic Dinoflagellate Blooms. (Proc. 2nd Intern. Conf.), Taylor, D.L. and Seliger, H.H. (eds.), Elsevier/North-Holland: N.Y., vol. 1, p. 37, 1979.
- 1197 TACHIBANA, K. Structural studies on marine toxins. Dissertation, Univ. Hawaii, 1980.
- 1198 TAGUCHI, H., YAZAWA, H., ARNETT, J.F. and KISHI, Y. A promising cyclization reaction to construct the saxitoxin system. Tetrahedron Lett. (7), 627, 1977.
- 1199 TANGEN, K. Blooms of Gyrodinium aureolum (Dinophyceae) in north European waters, accompanied by mortality in marine organisms. Sarsia 63, 123, 1977.
- 1200 TANGEN, K. Dinoflagellate blooms in Norwegian waters. In, Toxic Dinoflagellate Blooms. (Proc. 2nd Intern. Conf.), Taylor, D.L. and Seliger, H.H. (eds.), Elsevier/North-Holland: N.Y., vol. 1, p. 179, 1979.
- 1201 TANINO, H., NAKATA, T., KANEKO, T. and KISHI, Y. A stereospecific total synthesis of d,l-saxitoxin. J. Am. chem. Soc. 99, 2818, 1977.
- 1202 TARGETT, N.M. and MITSUI, A. Toxicity of subtropical marine algae using fish mortality and red blood cell hemolysis for bioassays. J. Phycol. 15, 181, 1979.

- 1203 TAXIT, R. Les phénomènes d'eaux rouges aux Iles Marquises. Cah. Pac. (21), 285, 1978.
- 1204 TAYLOR, D.L. and SELIGER, H.H., editors. Toxic Dinoflagellate Blooms. (Proc. 2nd Intern. Conf.), Elsevier/North-Holland: N.Y., 505p., 1979.
- 1205 TAYLOR, F.J.R. Parasitism of the toxin-producing dinoflagellate Gonyaulax catenella by the endoparasitic dinoflagellate Amoebophyra ceratii. J. Fish. Res. Bd. Can. 25, 2241, 1968.
- 1206 TAYLOR, F.J.R. Taxonomic difficulties in red tide and paralytic shellfish poison studies: the "Tamarensis complex" of Gonyaulax. Environ. Lett. 9, 103, 1975.
- 1207 TAYLOR, F.J.R. The toxigenic gonyaulacoid dinoflagellate. In, Toxic Dinoflagellate Blooms. (Proc. 2nd Intern. Conf.), Taylor, D.L. and Seliger, H.H. (eds.), Elsevier/North-Holland: N.Y., vol. 1, p. 47, 1979.
- 1208 TAYLOR, F.J.R. A description of the benthic dinoflagellate associated with maitotoxin and ciguatera toxin, including observation on Hawaiian material. In, Toxic Dinoflagellate Blooms. (Proc. 2nd Intern. Conf.), Taylor, D.L. and Seliger, H.H. (eds.), Elsevier/North-Holland: N.Y., vol 1, p. 71, 1979.
- 1209 TAYLOR, R.F., IKAWA, M., SASNER, J.J., THURBERG, F.P. and ANDERSON, K.K. Occurrence of choline esters in the marine dinoflagellate Amphidinium carteri. J. Physiol. 10, 279, 1974.
- 1210 TEH, Y.F., GWEE, M.C.E. and KHOO, H.W. Some pharmacological properties of an extract of a blue-green alga. J. Singapore natn. Acad. Sci. 4, 4, 1974.
- 1211 THOMSON, W. Toxic algae. V. Study of toxic bacterial contaminants. Def. Res. Bd. Can., DRKL Rept. (63), 1958.
- 1212 THOMSON, W.K., LAING, A.C. and GRANT, G.A. Toxic algae; IV. Isolation of toxic bacterial contaminants. Dept. Nat. Def. Can. Rept. (51), 6p., 1957.
- 1213 THURBERG, F.P. Ozone inactivation of a Gymnodinium breve toxin. Water Res. 7, 1701, 1974.
- 1214 THURBERG, F.P. and SASNER, J.J. Biological activity of cell extract from Amphidinium carteri. Chesapeake Sci. 14, 48, 1973.
- 1215 TIFFANY, L.H. Algae, the Grass of Many Waters. C.C. Thomas: Springfield, Ill., 177p., 1938.
- 1216 TIFFANY, W.J., III and HEYL, M.G. Invertebrate mass mortality induced by a Gymnodinium breve red tide in Gulf of Mexico waters at Sarasota, Florida. J. environ. Sci. 13, 653, 1978.
- 1217 TRIEFF, N.M., VENKATASUBRAMANIAN, N. and RAY, S.M. Purification of Gymnodinium breve toxin—dry column chromatographic technique. Texas Rept. Biol. Med. 30, 97, 1972.
- 1218 TRIEFF, N., SPIKES, J., RAY, S. and NASH, J. Isolation of Gymnodinium breve toxin. Toxicon 8, 157, 1970.
- 1219 TRIEFF, N.M., SPIKES, J.J., RAY, S.M. and NASH, J.B. Isolation and purification of Gymnodinium breve toxin. In, Toxins of Animal and Plant Origin. de Vries, A. and Kochva, E. (eds.), Gordon & Breach: N.Y., vol. 2, p. 557, 1972.
- 1220 TRIEFF, N.M., RAMANUJAM, M.S., ALAM, M., RAY, S.M. and HUDSON, J.E. Isolation, physico-

- chemical, and toxicologic characterization of toxins from Gymnodinium breve Davis. In, Proceedings of the First International Conference on Toxic Dinoflagellate Blooms. LoCi-cero, V.R. (ed.), Mass. Sci. Tech. Found.: Wakefield, Mass., p. 309, 1974.
- 1221 TSUDA, R.T. and RANDALL, J.E. Food habits of the gastropods, Turbo argyrostoma and T. setosus, reported as toxic from the tropical Pacific. Micronesia 7, 153, 1971.
- 1222 TURK, J.L., PARKER, D. and RUDNER, E.J. Preliminary results on the purification of the chemical sensitizing agent in Alcyonidium gelatinosum. Proc. Roy. Soc. Med. 59, 1122, 1966.
- 1223 TWAROG, B.M., HIDAKA, T. and YAMAGUCHI, H. Resistance to tetrodotoxin and saxitoxin in nerves of bivalve molluscs. A possible correlation with paralytic shellfish poisoning. Toxicon 10, 273, 1972.
- 1224 UCHIDA, T., KAWAMATA, K. and NISHIHAMA, Y. Vertical distribution of paralytic toxin-producing species Protogonyaulax-sp. in Funka Bay, Hokkaido, Japan. Jpn. J. Phycol. 23, 133, 1980.
- 1225 ULBRICHT, W. Kinetics of tetrodotoxin and saxitoxin action at the node of Ranvier. In, Advances in Cytopharmacology, Vol. 3, Neurotoxins: Tools in Neurobiology. Ceccarelli, B. and Clementi, F. (eds.), Raven Press: N.Y., p. 363, 1979.
- 1226 ULITZUR, S. Physical factors affecting the hemolytic activity of Prymnesium parvum toxin. J. Protozool. 16 (Suppl. 37), 1969 (Abst.).
- 1227 ULITZUR, S. Effect of Prymnesium parvum toxin on bacterial cells. J. Protozool. 16 (Suppl. 37), 1969 (Abst.).
- 1228 ULITZUR, S. The amphiphatic nature of Prymnesium parvum hemolysin. Biochim. biophys. Acta 298, 673, 1970.
- 1229 ULITZUR, S. and SHILO, M. A sensitive assay system for determination of the ichthyotoxicity of Prymnesium parvum. J. gen. Microbiol. 36, 161, 1964.
- 1230 ULITZUR, S. and SHILO, M. Mode of action of Prymnesium parvum ichthyotoxin. J. Protozool. 13, 332, 1966.
- 1231 ULITZUR, S. and SHILO, M. Effects of Prymnesium parvum toxins, cetyl trimethylammonium bromide and sodium dodecyl sulphate on bacteria. J. gen. Microbiol. 62, 363, 1970.
- 1232 ULITZUR, S. and SHILO, M. Procedure for purification and separation of Prymnesium parvum toxins. Biochim. biophys. Acta 201, 360, 1970.
- 1233 UNIVERSITY OF MIAMI MARINE LABORATORY. Red tide studies, January to June, 1954. Rept. 54-19 to Florida St. Bd. Conserv. Univ. Miami, Coral Gables, 1954.
- 1234 U.S. PUBLIC HEALTH SERVICE. Tentative standard procedure for the determination of shellfish (mussels or soft clams) poison, adopted November 19, 1943 (with suggestions of 1950). U.S.P.H.S.: Washington, 1950.
- 1235 VALENTI, M., PASQUINI, P. and ANDREUCCI, G. Saxitoxin and tetrodotoxin intoxication: report of 16 cases. Vet. hum. Toxicol. 21, 107, 1979.

- 1236 VALKANOV, A. Untersuchungen über Prymnesium parvum und seine toxische Einwirkung auf die Wasserorganismen. Kieler Meer-esforsch. 20, 65, 1964.
- 1237 VANGCAARD, L. and NIELSEN, S. Arbejdsmiljøet i dansk fiskeri. Ugeskr. Laeg. 139, 413, 1977.
- 1238 VINBERG, G.G. Toxic phytoplankton. Natn. Res. Counc. Can., Tech. Transl. (549), 25p., 1955.
- 1239 WAGNER, H.-H. and ULBRICHT, W. The rates of saxitoxin action and of saxitoxin-tetrodotoxin interaction at the node of Ranvier. Pflügers Arch. ges. Physiol. 359, 297, 1975.
- 1240 WAGNER, H.-H. and ULBRICHT, W. Procaine block of sodium channels does not interfere with block by saxitoxin. Pflügers Arch. ges. Physiol. 359, R133, 1975 (Abst.).
- 1241 WAGNER, H.-H. and ULBRICHT, W. Saxitoxin and procaine act independently on separate sites of the sodium channel. Pflügers Arch. ges. Physiol. 364, 65, 1976.
- 1242 WALDICHUK, M. Shellfish toxicity and the weather in the Strait of Georgia during 1957. Fish. Res. Bd. Can., Prog. Rept., Pac. Coast Sta. (112), 10p., 1958.
- 1243 WALKER, S. and KAO, C.Y. Structure-activity relations of saxitoxin analogs. Fed. Proc. 39, 380, 1980.
- 1244 WALL, D. Taxonomy and cysts of red-tide dinoflagellates. In, Proceedings of the First International Conference on Toxic Dinoflagellate Blooms. LoCicero, V.R. (ed.), Mass. Sci. Tech. Found.: Wakefield, Mass., p. 249, 1975.
- 1245 WANGERSKY, P.J. and GUILLARD, R.R.L. Low molecular weight organic base from the dinoflagellate Amphidinium carteri. Nature 185, 689, 1960.
- 1246 WARASKIEWICZ, S.M. and ERICKSON, K.L. Halogenated sesquiterpenoids from the Hawaiian marine alga Laurencia nidifica: nidificene and nidifidiene. Tetrahedron Lett. (23), 2003, 1974.
- 1247 WARDLE, W.J., RAY, S.M. and ALDRICH, A.S. Mortality of marine organisms associated with offshore summer blooms of the toxic dinoflagellate Gonyaulax monilata Howell at Galveston, Texas. In, Proceedings of the First International Conference on Toxic Dinoflagellate Blooms. LoCicero, V.R. (ed.), Mass. Sci. Tech. Found.: Wakefield, Mass., 1975.
- 1248 WATERFIELD, C.J. and EVANS, M.H. A method for distinguishing tetrodotoxin from saxitoxin, by comparing their relative stabilities when heated in acid solution. Experientia 28, 670, 1972.
- 1249 WATT, J. and MARCUS, R. Ulcerative colitis in guinea pig caused by seaweed extract. Pharm. Pharmacol. 21, 187s, 1969.
- 1250 WEIGLE, J.B. and BARCHI, R.L. Analysis of saxitoxin binding in isolated rat synaptosomes using a rapid filtration assay. F.E.B.S. Lett. 91, 310, 1978.
- 1251 WELSH, A.M. Preliminary survey of fungistatic properties of marine algae. J. Bacteriol. 83, 97, 1962.
- 1252 WESTERFIELD, M., MOORE, J.W., KIM, Y.S. and PADILLA, G.M. How Gymnodinium breve red tide toxin(s) produces repetitive firing in squid axons. Am. J. Physiol.

- 232, C23, 1977; see also Biophys. J. 16, 188a, 1976 (Abst.).
- 1253 WHITE, A.W. Dinoflagellate toxins as probable cause of an Atlantic herring (Clupea harengus harengus) kill, and pteropods as apparent vector. J. Fish. Res. Bd. Can. 34, 2421, 1977.
- 1254 WHITE, A.W. Salinity effects on growth and toxin content of Gonyaulax excavata, a marine dinoflagellate causing paralytic shellfish poisoning. J. Phycol. 14, 475, 1979.
- 1255 WHITE, A.W. Dinoflagellate toxins in phytoplankton and zooplankton fractions during a bloom of Gonyaulax excavata. In, Toxic Dinoflagellate Blooms. (Proc. 2nd Intern. Conf.), Taylor, D.L. and Seliger, H.H. (eds.), Elsevier/North-Holland: N.Y., vol. 1, p. 381, 1979.
- 1256 WHITE, A.W. and MARANDA, L. Paralytic toxins in the dinoflagellate Gonyaulax excavata and in shellfish. J. Fish. Res. Bd. Can. 35, 397, 1978.
- 1257 WIBERG, G.S. and STEPHENSON, N.R. Toxicological studies on paralytic shellfish poison. Toxicol. appl. Pharmacol. 2, 607, 1960.
- 1258 WIDDOWS, J., MOORE, M.N., LOWE, D.M. and SALKELD, P.N. Some effects of a dinoflagellate bloom (Gyrodinium aureolum) on the mussel, Mytilus edulis. J. mar. Biol. Assoc. U.K. 59, 522, 1979.
- 1259 WILMOT, D.L. and MARTIN, D.F. Short-term effects on Artemia salina of aponin and Gomphospaeria aponina in uniaigal cultures and in mixed cultures with Gymnodinium breve. J. pharm. Sci. 68, 963, 1979.
- 1260 WILSON, W.B. and COLLIER, A. Preliminary notes on the culturing of Gymnodinium brevis Davis. Science 121, 394, 1955.
- 1261 WILSON, W.B. and RAY, S.M. The occurrence of Gymnodinium brevis in the western Gulf of Mexico. Ecology 37, 388, 1956.
- 1262 WOLKE, R. and TRAINOR, F. Granulomatous enteritis in Catostomus commersoni associated with diatoms. J. Wildl. Dis. 7, 76, 1971.
- 1263 WOLOSZYNSKA, J. and CONRAD, W. Pyrodinium phoneus, n. sp., agent de la toxicité des moules du canal maritime de Bruges à Zeebrugge. Bull. Mus. Hist. nat. Belg. 15, 1, 1939.
- 1264 WONG, J.L., OESTERLIN, R. and RAPOPORT, H. The structure of saxitoxin. J. Am. chem. Soc. 93, 7344, 1971.
- 1265 WOOD, E.J.F. Dinoflagellates of the Caribbean Sea and Adjacent Areas. Univ. Miami Press: Coral Gables, Fla., 1969.
- 1266 WOOD, P.C. Dinoflagellate crop in the North Sea. Nature 220, 21, 1968.
- 1267 WOOD, P.C. Distribution of toxin in molluscan shellfish following the occurrence of mussel toxicity in north-east England. Nature 220, 25, 1968.
- 1268 WOOD, P.C. Public health aspects of shellfish from polluted waters. In, Biological Indicators of Water Quality. James, A. and Evison, L. (eds.), John Wiley & Sons: Chichester, p. 13, 1979.
- 1269 WOODCOCK, A.H. Note concerning human respiratory irritation associated with high concentrations of plankton and mass mortality of

- marine organisms. J. mar. Res. 7, 56, 1948.
- 1270 WOODWARD, G. Conference on shellfish toxicology. Pub. Hlth. Serv.: Washington, p. 26, 1955.
- 1271 YARIV, J. Toxicity of Prymnesium cultures. Thesis, Hebrew Univ., Jerusalem, 1958.
- 1272 YARIV, J. and HESTRIN, S. Toxicity of the extracellular phase of Prymnesium parvum cultures. J. gen. Microbiol. 24, 165, 1961.
- 1273 YASUMOTO, T., INOUE, A. and BAGNIS, R. Ecological survey of a toxic dinoflagellate associated with ciguatera. In, Toxic Dinoflagellate Blooms. (Proc. 2nd Intern. Conf.), Taylor, D.L. and Seliger, H.H. (eds.), Elsevier/North-Holland: N.Y., vol. 1, p. 221, 1979.
- 1274 YASUMOTO, T., OSHIMA, Y. and YAMAGUCHI, M. [Occurrence of a new type of shellfish poisoning in the Tohoku district.] Nihon Suisan-Gakkai Shi 44, 1249, 1978.
- 1275 YASUMOTO, T., BAGNIS, R., THEVENIN, S. and GARCON, M. A survey of comparative toxicity in the food chain of ciguatera. Bull. Jpn. Soc. scient. Fish. 43, 1015, 1977.
- 1276 YASUMOTO, T., INOUE, A., BAGNIS, R. and GARCON, M. Ecological survey on a dinoflagellate possibly responsible for the induction of ciguatera. Nihon Suisan-Gakkai Shi 45, 395, 1979.
- 1277 YASUMOTO, T., NAKAJIMA, I., BAGNIS, R. and ADACHI, R. Finding of a dinoflagellate as a likely culprit of ciguatera. Bull. Jpn. Soc. scient. Fish. 43, 1021, 1977.
- 1278 YASUMOTO, T., NAKAJIMA, I., OSHIMA, Y. and BAGNIS, R. A new toxic dinoflagellate found in association with ciguatera. In, Toxic Dinoflagellate Blooms. (Proc. 2nd Intern. Conf.), Taylor, D.L. and Seliger, H.H. (eds.), Elsevier/North-Holland: N.Y., vol. 1, p. 65, 1979.
- 1279 YASUMOTO, T., INOUE, A., OCHI, T. et al. Environmental studies on a toxic dinoflagellate (Gambierdiscus toxicus) responsible for ciguatera. Bull. Jpn. Soc. scient. Fish. 46, 1397, 1980.
- 1280 YASUMOTO, T., OSHIMA, Y., MURAKAMI, Y. et al. Toxicity of benthic dinoflagellates found in coral reefs. Bull. Jpn. Soc. scient. Fish. 46, 327, 1980.
- 1281 YENTSCH, C.M. and BALCH, W. Lack of a secondary intoxicification by red tide poison in the American lobster Homarus americanus. Environ. Lett. 9 (3), 249, 1975.
- 1282 YENTSCH, C.M. and MAGUE, F.C. Motil cells and cysts: two probable mechanisms of intoxication of shellfish in New England waters. In, Toxic Dinoflagellate Blooms. (Proc. 2nd Intern. Conf.), Taylor, D.L. and Seliger, H.H. (eds.), Elsevier/North-Holland: N.Y., vol. 1, p. 127, 1979.
- 1283 YENTSCH, C.M., DALE, B. and HURST, J.W. Coexistence of toxic and nontoxic dinoflagellates resembling Gonyaulax tamarensis in New England coastal waters (NW Atlantic). J. Phycol. 14, 330, 1978.
- 1284 ZICK, K. Die Entladung der Nesselkapseln durch Protozoen. Zool. Anz. 98, 191, 1932.

1285 ZLOTKIN, E. Chemistry of animal venoms. Experientia 29, 1453, 1973.

1286 ZWAHLEN, A., BLANC, M.H. and ROBERT, M. Épidémie d'intoxication par les moules ("Paralytic Shellfish Poisoning"). Schweiz. med. Wschr. 107, 226, 1977.

CHAPTER IV

PORIFERA (Sponges)

Citations in this chapter treat of the toxic Porifera, or sponges. The Porifera are highly organized colonies of unicellular nomads composed of loosely integrated cells covered by a skin and, with few exceptions, supported internally by a skeleton of silica, calcite, or spongin. There are more than 10,000 species, most of which are marine.

Some sponges release a toxic substance into their environment, which serves as a warning or deterrent to approaching predators. Possibly the sponge releases this product as a continuous process, although it may also be stimulated by certain chemical or physical stimuli. Other functions of this excretion have been cited. With respect to humans, poisoning by sponges occurs through deposit by the toxin(s) in the very superficial abrasions produced by the animal's fine, sharp spicules.

- 1287 ACKERMANN, D. Biogene Amine. Ber. Physik-Med. Ges. Würzburg 70, 1, 1963.
- 1288 ACKERMANN, D. and LIST, P.H. Über das Vorkommen beträchtlicher Mengen Histamin in der niederen Tierwelt. Z. phys. Chem. 308, 274, 1957.
- 1289 ACKERMANN, D. and LIST, P.H. Über das Vorkommen von Taurobetain, Taurin und Inosit im Riesen Kieselschwamm. Hoppe-Seyler's Z. physiol. Chem. 317, 78, 1959.
- 1290 ACKERMANN, D. and PANT, R. Inhaltstoffe des Schwammes Calix nicacensis. Z. phys. Chem. 326, 197, 1961.
- 1291 ACKERMANN, D., LIST, P.H. and MENSSEN, H.G. Über das Vorkommen einer neuen Purinbase $C_6H_7N_5$ im Risenkieselschwamm (Geodia gigas). Z. phys. Chem. 312, 210, 1958.
- 1292 ANON. Life in these parts. Hawaii med. J. 37, 158, 1978.
- 1293 ARNDT, K.A. Manual of Dermatology Therapeutics. Little, Brown Co.: Boston, p. 262, 1974.
- 1294 ARNDT, W. Die Spongien als kryptotoxische Tiere. Zool. Jahrb. 45, 343, 1928.
- 1295 AUSTIN, J. The sterols of marine invertebrates and plants. In, Advances in Steroid Biochemistry and Pharmacology. Briggs, M.H. (ed.), Academic: N.Y., vol. 1, p. 73, 1970.
- 1296 BACQ, Z.M. Recherches sur la physiologie et la pharmacologie du système nerveux autonome. XVII. Les esters de la choline dans les extraits de tissus des Invertébrés. Arch. intern. Physiol. 42, 24, 1935.
- 1297 BAKER, J.T. and MURPHY-STEINMANN, F. Compounds from Marine Organisms. Handbook of Marine Science. CRC Press: Cleveland, Ohio, Sect. 2, vol. 1, 400p., 1976.
- 1298 BAKUS, G.J. Energetics and feeding in shallow marine waters. Intern. Rev. gen. exp. Zool. 4, 275, 1969.
- 1299 BAKUS, G.J. An ecological hypothesis for the evolution of toxicity in marine organisms. Toxicon 8, 120, 1970 (Abst.); see also Intern. Rev. gen. exp. Zool. 4, 275, 1969; see also Proc. Symp. Corals & Coral Reefs, Mar. Biol. Assoc. India, p. 445, 1972.
- 1300 BAKUS, G.J. and GREEN, G. Toxicity in sponges and holothurians: a geographic pattern. Science 185, 951, 1974.
- 1301 BAKUS, G.J. and THUN. Bioassays on the toxicity of Caribbean sponges. Biol. Spong. 291, 417, 1979.
- 1302 BANNER, A.H. Hazardous marine animals. In, Forensic Medicine. Tedeschi, C.G., Eckert, W.G. and Tedeschi, L.G. (eds.), W.B. Saunders: Philadelphia, vol. 3, p. 1378, 1977.
- 1303 BASLOW, M.H. Porifera. In, Marine Pharmacology. Williams & Wilkins: Baltimore, p. 86, 1969; revised R.E. Krieger: Huntington, N.Y., p. 86, 1977.
- 1304 BASLOW, M.H. and READ, G.W. Hypotensive and other pharmacological actions of agents from the sponges of Toxadocia violacea, Haliclona viridis and Haliclona magnicanulosa. Proc. west. pharmacol. Soc. 11, 117, 1968.
- 1305 BASLOW, M.H., READ, G.W. and DORMER, K. Hypotensive and paralytic agents from the sponge

Toxadocia violacea. Am. Zool. 7,
738, 1967.

- 1306 BERGMANN, W. Comparative biochemical studies on lipids of marine invertebrates with special reference to the sterols. J. mar. Res. 8, 137, 1949.
- 1307 BERGMANN, W. Marine sterols. In, Cholesterol. Cook, R.P. (ed.), Academic: N.Y., p. 435, 1958.
- 1308 BERGMANN, W. Sterols: their structure and distribution. In, Comprehensive Biochemistry. Florin, M. and Mason, H.S. (eds.), Academic: N.Y., vol. 3, p. 103, 1962.
- 1309 BERGMANN, W. and BURKE, D.C. Contributions to the study of marine products XXXIV. The nucleosides of sponges III. Spongothymidine and spongouridine. J. org. Chem. 20, 1501, 1955.
- 1310 BERGMANN, W. and BURKE, D.C. Contributions to the study of marine products XI. The nucleosides of sponges IV. Spongocine. J. org. Chem. 21, 226, 1956.
- 1311 BERGMANN, W. and DOMSKY, I.I. Sterols of some invertebrates. Ann. N.Y. Acad. Sci. 90, 906, 1960.
- 1312 BERGMANN, W. and FEENEY, R.J. Contributions to the study of marine products XXXII. The nucleosides of sponges I. J. org. Chem. 16, 981, 1951.
- 1313 BERGMANN, W. and MC TIGUE, F.H. Contributions to the study of marine products XVI: Chondrillasterol. J. org. Chem. 13, 738, 1948.
- 1314 BERGMANN, W. and STEMPIEN, M.F., JR. Contributions to the study of marine products XLIII. The nucleosides of sponges. V.

The synthesis of spongocine. J. org. Chem. 22, 1575, 1957.

- 1315 BERGMANN, W., GOULD, D.H. and LOW, E.M. Contributions to the study of marine products XVII. Spongocine. J. org. Chem. 10, 570, 1945.
- 1316 BERGMANN, W., WATKINS, J.C. and STEMPIEN, M.F. Contributions to the study of marine products XLV. Sponge nucleic acids. J. org. Chem. 22, 1308, 1957.
- 1317 BERQUIST, P.R. Porifera. In, Reef and Shore Fauna of Hawaii: Section I: Protozoa through Ctenophora. Bishop Museum: Honolulu, p. 58, 1977.
- 1318 BERQUIST, P.R. Sponges. Univ. Calif. Press: Berkeley, 268p., 1978.
- 1319 BERQUIST, P.R. Sponge chemistry — a review. In, Biology des Spongiaires / Sponge Biology. Levi, C. and Boury-Esnault, N. (eds.), Centre Natn. Recherche Scient.: Paris, p. 383, 1979.
- 1320 BERQUIST, P.R. and HARTMAN, W.D. Free amino acid patterns and the classification of the Demospongia. Mar. Biol. 3, 347, 1969.
- 1321 BERQUIST, P.R. and HOGG, J.J. Free amino acid patterns in Demospongiae: a biological approach to sponge classification. Cah. Biol. Mar. 10, 205, 1969.
- 1322 BURKHOLDER, P.R. and REUTZLER, K. Antimicrobial activity of some marine sponges. Nature 222, 983, 1969.
- 1323 BURRESON, B.J. and SCHEUER, P.J. Isolation of a diterpenoid isonitrile from a marine sponge. J.C.S. Chem. Commun. 1035, 1974.

- 1324 BURRESON, B.J., CHRISTOPHERSEN, C. and SCHEUER, P.J. Co-occurrence of a terpenoid isocyanide-formamide pair in the marine sponge Halichondria sp. J. Am. chem. Soc. 97, 201, 1975.
- 1325 BURTON, M. Porifera. In, The Encyclopedia of the Biological Sciences. Gray, P. (ed.), Reinhold: N.Y., p. 825, 1961.
- 1326 CAMERON, A.M. Toxicity phenomena in coral reef waters. Proc. 2nd Intern. Coral Reef Symp. 1, 513, 1974.
- 1327 CARIELLO, L. and ZANETTI, L. Suberitine, the toxic protein from the marine sponge, Suberites domuncula. Comp. Biochem. Physiol. 64C, 15, 1979.
- 1328 CARIELLO, L., ZANETTI, L. and RATHMAYER, W. Isolation, purification and some properties of suberitine, the toxic protein from the marine sponge, Suberites domuncula. In, Natural Toxins. Eaker, D. and Wadström, T. (eds.), Pergamon: Oxford, p. 631, 1980; see also Toxicon 17 (Suppl. 1), 21, 1979 (Abst.).
- 1329 CLARK, A.M. Dangerous marine organisms of Hawaii. Univ. Hawaii, Sea Grant Program Rept., July 1978.
- 1330 CLELAND, J.B. Injuries and diseases of man in Australia attributable to animals, except those due to snakes and insects. 6th Rept., Govt. Bur. Microbiol., Dept. Pub. Hlth., N.S.W., 266p., 1916.
- 1331 CLELAND, J.B. Injuries and diseases in Australia attributable to animals. Med. J. Aust. (2), 313, 1942.
- 1332 CLELAND, J.B. and SOUTHCOTT, R.V. Injuries to Man from Marine Invertebrates in the Australian Region. Porifera. Commonwealth Australia: Canberra, 1965.
- 1333 COHEN, S.S. Sponges, cancer chemotherapy and cellular aging. Perspect. Biol. Med. 6, 215, 1963.
- 1334 CORSON, E.F. and PRATT, A.G. "Red moss" dermatitis. Arch. Derm. Syph. 47, 574, 1943.
- 1335 COSULICH, D.B. and LOVELL, F.M. An x-ray determination of the structure of an antibacterial compound from the sponge Ianthella ardis. Chem. Commun. 397, 1971.
- 1336 DALY, J.W., JERINA, D.M. and WITKOP, D. Arene oxides and the NIH shift: the metabolism, toxicity and carcinogenicity of aromatic compounds. Experientia 28, 1129, 1972.
- 1337 DAS, N.P., LIM, H.S. and TEH, Y.F. Histamine and histamine-like substances in the marine sponge, Suberites inconstans. Comp. gen. Pharmac. 2, 473, 1971.
- 1338 DE LAUBENFELS, M.W. The marine and freshwater sponges of California. Proc. U.S. natn. Mus. 81, 1, (Publ. 2927), 1932.
- 1339 DE LAUBENFELS, M.W. The sponges of Kaneohe Bay, Oahu. Pac. Sci. 4, 3, 1950.
- 1340 DE LAUBENFELS, M.W. The sponges of the island of Hawaii. Pac. Sci. 5, 256, 1951.
- 1341 DE LAUBENFELS, M.W. A Guide to the Sponges of Eastern North America. Univ. Miami Press: Miami, Fla., 32p., 1953.
- 1342 DE LUCA, P., DE ROSA, M., MINALE, R. et al. Synthesis of 24, 28-didehydroaplysterol and x-ray crystal structure of

aplysterol: unusual marine sterols. J.C.S. Chem. Commun. 825, 1973.

1343 DER MARDEROSIAN, A.D. Marine pharmaceuticals. J. pharm. Sci. 58, 1, 1969.

1344 DOREE, C. The occurrence and distribution of cholesterol and allied bodies in the animal kingdom. Biochem. J. 4, 72, 1909.

1345 DUCHASSAING, P. and MICHELOTI, G. Spongiarés de la mer Caraïbe. Natuurk. Verh. Holland-sche Maatschappij Wetensch., Haarlem ser. 2, 21, (2), 124p., 1864.

1346 DYMSZA, H., SHIMIZU, Y., RUSSELL, F.E. and GRAHAM, H.D. Poisonous marine animals. In, The Safety of Foods. 2nd edit., Graham, H.D. (ed.), Avi Publ.: Westport, Conn., p. 625, 1980.

1347 EDMONDS, C. Dangerous marine animals. Aust. Fam. Physician 5, 381, 1976.

1348 ENDEAN, R. Neurotoxins occurring in marine animals from Australian waters. In, Neurotoxins. Fundamental and Clinical Advances. Chubb, I.W. and Geffen, L.B. (eds.), Adelaide Univ. Union Press: Adelaide, S. Australia, p. 57, 1979.

1349 ERDMAN, T.R. and SCHEUER, P.J. 28-isofucosterol: major steroid of a marine sponge. Lloydia 38, 2379, 1975.

1350 FAULKNER, D.J. Variabilin, an antibiotic from the sponge, Ircinia variabilis. Tetrahedron Lett. 3821, 1973.

1351 FAULKNER, D.J. and ANDERSON, R.J. Natural products chemistry of the marine environment. In, The Sea. Goldberg, E.D. (ed.),

John Wiley & Sons: N.Y., vol. 5, p. 679, 1974.

1352 FISHER, A.A. and ORRIS, W.L. Aquatic contact dermatitis. Cutis 12, 687, 1973.

1353 FISHER, A.A. Atlas of Aquatic Dermatology. Grune & Stratton: N.Y., 112p., 1978.

1354 GERMAN, V.F. Na,Na-dimethyl-histamine, the hypotensive principle of the sponge Ianthelia sp. J. pharm. Sci. 60, 495, 1971.

1355 GESSNER, O. Tierische Gifte. In, Handbuch der experimentellen Pharmakologie. Huebner, W. and Schuller, J. (eds.), Springer: Berlin, vol. 6, p. 61, 81, 1938.

1356 GREEN, G. Ecology of toxicity in marine sponges. Mar. Biol. 40, 207, 1977; see also 5th Intern. Symp. Animal, Plant, Microbial Toxins, San Jose, Costa Rica, p. 3, 1976 (Abst.).

1357 GREEN, G. and BAKUS, G.J. Toxicidad en esponjas y holoturias. Ann. Cent. Cienc. Mar. Limnol. Univ. Nac. Autón. Mex. 2 (1), 61, 1975.

1358 HABERMEHL, G.G. Recent progress in the chemistry of marine animal toxins. Bull. Inst. Pasteur, Paris 74, 107, 1976.

1359 HALSTEAD, B.W. Animal phyla known to contain poisonous marine animals. In, Venoms. Buckley, E.E. and Porges, N. (eds.), A.A.A.S.: Washington, p. 9, 1956.

1360 HALSTEAD, B.W. Poisonous and Venomous Marine Animals of the World, Vol. I, Invertebrates. U.S. Govt. Print. Off.: Washington, p. 271, 1965.

1361 HALSTEAD, B.W. Marine biotoxins: a new source of medicinals. Lloydia 32, 484, 1969.

- 1362 HALSTEAD, B.W. Pharmaceuticals from the sea. New Scientist 7, 564, 1972.
- 1363 HALSTEAD, B.W. Hazardous marine life. In, Diving Medicine. Strauss, R.H. (ed.), Grune & Stratton: N.Y., p. 227, 1976.
- 1364 HALSTEAD, B.W. Poisonous and Venomous Marine Animals of the World. Rev. edit., Darwin Press: Princeton, N.J., 238p., 1978.
- 1365 HALSTEAD, B.W. and RUSSELL, F.E. Toxic marine organisms. In, Handbook of Biological Data. Spector, W.S. (ed.), F.A.S.E.B.: Washington, p. 424, 1956.
- 1366 HALSTEAD, B.W., CARSCALLEN, L.J. and RUSSELL, F.E. Animal toxins. Part III. Marine organisms. In, Biology Data Book. Altman, P.L. and Dittmer, D.S. (eds.), F.A.S.E.B.: Washington, p. 336, 1964.
- 1367 HAMMEN, C.S. and FLORKIN, M. Chemical composition and intermediary metabolism—Porifera. In, Chemical Zoology. Florkin, M. and Scheer, B.T. (eds.), Academic: N.Y., vol. 2, p. 53, 1968.
- 1368 HANESSIAN, S. and KALTENBRON, J.S. Synthesis of a bromine-rich marine antibiotic. J. Am. chem. Soc. 88, 4509, 1966.
- 1369 HASHIMOTO, Y. [Marine Toxins]. Univ. Tokyo Press: Tokyo, 1977.
- 1370 HASHIMOTO, Y. Marine Toxins and Other Bioactive Metabolites. Jpn. Sci. Soc.: Tokyo, 1979.
- 1371 HENZE, M. Spongosterin, eine cholesterin artige Substanz aus Suberites domuncula. Hoppe-Seyler's Z. physiol. Chem. 41, 109, 1904.
- 1372 IDYLL, C.P. Marine sciences. Fed. Proc. 31, TF121, 1972.
- 1373 JACOBSEN, J.G. and SMITH, L.H. Biochemistry and physiology of taurine and taurine derivatives. Physiol. Rev. 48, 424, 1968.
- 1374 JACQUES, Y., FOSSET, M. and LAZDUNSKI, M. Molecular properties of the action potential Na⁺ ionophore in neuroblastoma. J. biol. Chem. 253, 7383, 1978.
- 1375 JAKOWSKA, S. and NIGRELLI, R.F. Antimicrobial substances from sponges. Ann. N.Y. Acad. Sci. 90, 913, 1970.
- 1376 JOHNSTON, D.G. and BURGER, W.D. Injury and disease of scuba and skin divers. Postgrad. Med. 49, 134, 1971.
- 1377 KAISER, E. and MICHL, H. Die Biochemie der tierischen Gifte. F. Deuticke: Wein, p. 4, 1958.
- 1378 KASHMAN, Y., FISHELSON, L. and NEEMAN, I. N-acyl-2-methylene-alanine methyl esters from the sponge Fasciospongia cavernosa. Tetrahedron 29, 3655, 1973.
- 1379 KLAUS, G. Pharmaceuticals from the oceans. Drug Cosmetic Ind. 103 (6), 48, 1968.
- 1380 LANE, C.E. Toxins of marine origin. Ann. Rev. Pharmacol. 8, 409, 1968.
- 1381 LASSABLIÈRE, M.P. Influence des injections intraveineuses de subératine sur la résistance globulaire. C.R. Séanc. Soc. Biol. 61, 600, 1906.
- 1382 LENTZ, T.L. Histochemical localization of neurohumors in a sponge. J. exp. Zool. 162, 171, 1966.
- 1383 LOVELL, F.M. The structure of a bromine-rich marine antibiotic. J. Am. chem. Soc. 88, 4510, 1966.

- 1384 MANSON-BAHR, P.H. Animal poisons. In, Manson's Tropical Diseases. A Manual of the Diseases of Warm Climates. 13th edit., Williams & Wilkins: Baltimore, p. 842, 1950.
- 1385 MARDEROSIAN, A.D. Marine pharmaceuticals. J. pharm. Soc. 58, 1, 1969.
- 1386 MARETIĆ, Z. [Venomous Animals and Poisonous Animals of the Adriatic Sea.] J.A.Z.U.: Zagreb, Yugoslavia, 1975.
- 1387 MERCADO, A.R. Pharmacological and chemical studies of a toxin from Haliclona viridis. Dissertation, Univ. Miami, 1972.
- 1388 METTRICK, D.F. and TELFORD, J.M. The histamine content and histidine decarboxylase activity of some marine animals from the West Indies. Comp. Biochem. Physiol. 16, 547, 1965.
- 1389 MINALE, L. Terpenoids from marine sponges. In, Marine Natural Products. Scheuer, P.J. (ed.), Academic: N.Y., vol. 1, p. 175, 1978.
- 1390 MINALE, L., CIMINO, G., DE STEFANO, S. and SODANO, G. Natural products from Porifera. Fortschr. Chem. org. Naturst. 33, 1, 1976.
- 1391 MINTON, S.A. Spines and stings and sea snakes. Consultant 17, 45, 1977.
- 1392 MUHLENS, A. Bösartige Unterschenkelgeschwüre nach Korallenrisswunden. Arch. Schiffs- u. Tropenhyg. 12, 167, 1908.
- 1393 NEWHOUSE, M.L. Dogger Bank itch: survey of trawler men. Br. med. J. (i), 1142, 1966; see also Proc. Roy. Soc. Med. 59, 1119, 1966.
- 1394 NIGRELLI, R.F., JAKOWSKA, S. and CALVENTI, I. Ectyonin, an antimicrobial agent from the sponge, Microciona prolifera Verrill. Zoologica 44, 173, 1959.
- 1395 NIGRELLI, R.F., STEMPIEN, M.F., JR., RUGGIERI, G.D., LIGUORI, V.R. and CECIL, J.T. Substances of potential biomedical importance from marine organisms. Fed. Proc. 26, 1197, 1967.
- 1396 PHILLIPS, C. and BRADY, W.H. Sea Pests: Poisonous or Harmful Sea Life of Florida and the West Indies. Univ. Miami Press: Miami, Fla., 78p., 1953.
- 1397 PHISALIX, M. Animaux Venimeux et Venins. 2 vols., Masson & Cie: Paris, 1922.
- 1398 POLIMANTI, O. Sulla simbiosi della Suberites domuncula (Olivi) con la Dromia vulgaris (M. Edw.). Zool. Jahrb. Jena Allg. Zool. 30, 359, 1911.
- 1399 RAVI, B.N., ERDMAN, T.R. and SCHEUER, P.J. An antimicrobial constituent of a sponge, Chondrosia sp. In, Food-Drugs from the Sea Proceedings, 1974. Weber, H.H. and Ruggieri, G.D. (eds.), Mar. Tech. Soc.: Washington, p. 258, 1974.
- 1400 RICHET, C. De l'action toxique de la suberitine. C.R. Soc. Biol. 61, 598, 1906.
- 1401 RICHET, C. De la variabilité de la dose toxique de subérutine. C.R. Soc. Biol. 61, 686, 1906.
- 1402 RICHET, C. Anaphylaxie par la mytilo-congestine. C.R. Soc. Biol. 62, 358, 1907.
- 1403 RINEHART, K.L., JR., NABABSING, P. and HAGER, L.P. Identification of antimicrobial, antiviral and cytotoxic agents in marine

- algae and sponges. Lloydia 40, (6), 1977.
- 1404 ROBIN, Y. and ROCHE, J. Sur la présence de taurocyamine (guanidotaurine) chez des Coelentérés et des Spongiaires. C.R. Séanc. Soc. Biol. 148, 1783, 1954.
- 1405 RUGGIERI, G.D. Drugs from the sea. Marine organisms with novel chemical constituents are excellent sources of new drugs. Science 194, 491, 1976.
- 1406 RUGGIERI, G.D., NIGRELLI, R.F. and STEMPIEN, M.F., JR. Jelly-precipitating reaction in sea urchin eggs by antibiotic substances from sponges. Am. Zool. 4, 223, 1964.
- 1407 RUGGIERI, G.D., MORRIS, S.J., BASLOW, M.H., JAKOWSKA, S. and NIGRELLI, R.F. Developmental aberration in the sea urchin eggs induced by sponge extracts. Am. Zool. 1, 252, 1961.
- 1408 RUSSELL, F.E. Venomous and poisonous animals and their toxins. First Inter-Amer. Naval Res. Conf., San Juan, Puerto Rico, 37p., 1965.
- 1409 RUSSELL, F.E. Marine toxins and venomous and poisonous marine animals. In, Advances in Marine Biology: Russell, F.S. (ed.), Academic: London, vol. 3, p. 271, 1965.
- 1410 RUSSELL, F.E. Toxic marine animals. Naval Res. Rev. 19, 20, 1966.
- 1411 RUSSELL, F.E. Comparative pharmacology of some animal toxins. Fed. Proc. 26, 1206, 1967.
- 1412 RUSSELL, F.E. Pharmacology of animal venoms. Clin. Pharmacol. Therap. 8, 849, 1967.
- 1413 RUSSELL, F.E. Poisons and venoms. In, Fish Physiology. Hoar, W.S. and Randall, D.J. (eds.), Academic: N.Y., vol. 3, p 401, 1969.
- 1414 RUSSELL, F.E. Sponge injury—traumatic, toxic or allergic? New Engl. J. Med. 282, 753, 1970.
- 1415 RUSSELL, F.E. Pharmacology of toxins of marine origin. In, International Encyclopedia of Pharmacology and Therapeutics. Raskova, H. (ed.), Pergamon: Oxford, Sect. 71, vol. 2, p. 3, 1971.
- 1416 RUSSELL, F.E. Poisonous Marine Animals. T.F.H. Publ.: Neptune City, N.J., 176p., 1971.
- 1417 RUSSELL, F.E. Venomous animal injuries. In, Current Problems in Pediatrics. Gluck, L. (ed.), Year Book Med. Publ.: Chicago, vol. III, (9), p. 1, 1973.
- 1418 RUSSELL, F.E. Poisonous and venomous marine animals and their toxins. Ann. N.Y. Acad. Sci. 245, 57, 1975.
- 1419 RUSSELL, F.E. Hazardous marine life. Part I: venomous marine animals. Hyperb. underseas Med. 1, 1, 1978.
- 1420 RUSSELL, F.E. Venom poisoning: snakes, arthropods and marine animals. Emergency Medicine Symposium III, Univ. Calif., San Diego, 1978-81.
- 1421 RUSSELL, F.E. and CARLSON, R.W. Marine organisms. In, Biology Data Book. Altman, P.L. and Dittmer, D.S. (eds.), F.A.S.E.B.: Washington, p. 726, 1973.
- 1422 SCHEUER, P.J. Chemistry of Marine Natural Products. Academic: N.Y., 201p., 1973.
- 1423 SCHEUER, P.J., editor. Marine Natural Products: Chemical and

Biological Perspectives. 4 vols.,
Academic: N.Y., 1978-1981.

- 1424 SCHMITZ, F.J., HOLLENBEAK, K.H. and CAMPBELL, D.C. Marine natural products: halitoxin, toxic complex of several marine sponges of the genus Haliclona. J. org. Chem. 43, 3916, 1978.
- 1425 SHARMA, G.M. and BURKHOLDER, P.R. Studies on the antimicrobial substances of sponges-II. Structure and synthesis of a bromine-containing antibacterial compound from a marine sponge. Tetrahedron Lett. 4147, 1967.
- 1426 SHARMA, G.M. and BURKHOLDER, P.R. Studies on antimicrobial substances of sponges-I. J. Antibiotics, Ser. A 20, 200, 1967.
- 1427 SHARMA, G.M. and BURKHOLDER, P.R. Structure of dibromophakellin, a new bromine-containing alkaloid from the marine sponge Phakellia flagellata. Chem. Commun. 151, 1971.
- 1428 SHARMA, G.M. and VIG, B. Studies on the antimicrobial substances of sponges-VI. Structures of two antibacterial substances isolated from the marine sponge Disidea herbacea. Tetrahedron Lett. 1715, 1972.
- 1429 SHARMA, G.M., VIG, B. and BURKHOLDER, P.R. Studies on the antimicrobial substances of sponges. III. Chemical properties of some antibacterial compounds from marine sponges. In, Drugs From the Sea. Freudenthal, H.D. (ed.), Mar. Tech. Soc.: Washington, p. 119, 1968.
- 1430 SHARMA, G.M., VIG, B. and BURKHOLDER, P.R. Antimicrobial substances of marine sponges-IV. In, Food-Drugs from the Sea Conference, 1969. Youngken, H.W. (ed.), Mar. Tech. Soc.: Washington, p. 307, 1970.
- 1431 SHIJKH, Y.M. and DJERASSI, C. Steroids from sponges. Tetrahedron 30, 4095, 1974.
- 1432 SIMS, J.K. Dangerous aquatic organisms. In, Emergency Nursing. Barry, J. (ed.), McGraw-Hill: N.Y., p. 391, 1978.
- 1433 SIMS, J.K. Drowning and near-drowning. In, Emergency Nursing. Barry, J. (ed.), McGraw-Hill: N.Y., p. 377, 1978.
- 1434 SIMS, J.K. and IREI, M.Y. Human Hawaiian marine sponge poisoning. Hawaii med. J. 38, 263, 1979.
- 1435 SOUTHCOTT, R.V. Human injuries from invertebrate animals in the Australian seas. Clin. Tox. 3, 617, 1970.
- 1436 SOUTHCOTT, R.V. The neurologic effects of noxious marine creatures. In, Contemporary Neurology Series. Hornabrook, R.W. (ed.), F.A. Davis: Philadelphia, Vol. 12, p. 165, 1975.
- 1437 SOUTHCOTT, R.V. Harmful marine sponges in South Australian seas. Hosp. Dept. Bull. (S. Australia) 11, 15, 1976.
- 1438 SOUTHCOTT, R.V. Marine envenomation and intoxication in man. In, Neurotoxins. Fundamental and Clinical Advances. Chubb, I.W. and Geffen, L.D. (eds.), Adelaide Univ. Union Press: Adelaide, S. Australia, p. 75, 1979.
- 1439 SOUTHCOTT, R.V. and COULTER, J.R. The effects of southern Australian marine stinging sponges, Neofibularia mordens and Lissodendoryx sp. Med. J. Aust. (2), 895, 1971.

- 40 STEMPIEN, M.F., JR. Antibiotic substance isolated from a sponge of the genus Agelas. Am. Zool. 6, 363, 1966.
- 41 STEMPIEN, M.F., JR., NIGRELLI, R.F. and CHIB, J.S. Isolation and synthesis of physiologically active substances from sponges of the genus Agelas. 164th Am. Chem. Soc. Meeting, N.Y., 21 MEDI Abst., 1972.
- 42 STEMPIEN, M.F., RUGGIE A, G.D., NIGRELLI, R.F. and CECIL, J.T. Physiologically active substances from extracts of marine sponges. In, Food-Drugs from the Sea Conference, 1969. Youngken, H.W. (ed.), Mar. Tech. Soc.: Washington, p. 295, 1970.
- 43 SZENTKIRALYI, S. Über eine durch Süßwasserschwämme verursachte Hauterkrankung der Tisza (Theiss-). Fischer. Dermat. Wschr. 104, 602, 1937.
- 44 TACHIBANA, K. Structural studies on marine toxins. Dissertation, Univ. Hawaii, 1980.
- 45 TALLEY, R.W., O'BRYAN, R.M., TUCKER, W.G. and LOO, R.V. Clinical pharmacology and human antitumor activity of cytosine arabinoside. Cancer 20, 809, 1967.
- 46 VALENTIN, F.R., JR. and BERGMANN, W. The sterols of sponges: clionasterol and poriferasterol. J. org. Chem. 6, 452, 1941.
- 47 VAN LEAR, G.E., MORTON, G.O. and FULMOR, W. New antibacterial bromoindole metabolites from the marine sponge Polyfibrospongia maynardii. Tetrahedron Lett. 299, 1973.
- 48 VAN THOAI, N. and ROCHE, J. Phosphagens of marine animals. Ann. N.Y. Acad. Sci. 90, 923, 1960.
- 1449 WALTON, J.J. and PENNOCK, J.F. Some studies on the biosynthesis of ubiquinone, isoprenoid alcohols, squalene and sterols by marine invertebrates. Biochem. J. 127, 471, 1972.
- 1450 WANG, C.M., NARAHASHI, T. and MENDE, T.J. Depolarizing action of Haliclona toxin on end-plate and muscle membranes. Toxicon 11, 499, 1973.
- 1451 WARIN, R.P. and CHAMPION, R.H. Urticaria. W.B. Saunders Co.: Philadelphia, p. 43, 1974.
- 1452 WHITE, R.P. The Dermatogoses; or, Occupational Affections of the Skin. 4th edit., H.K. Lewis: London, 716p., 1934.
- 1453 WHITLEY, G.P. Dangerous Australian fishes. Proc. First Intern. Convention Life Saving Techniques. Suppl. Bull., Post Grad. Comm. Med., Univ. Sydney, Australia, 131p., 1963.
- 1454 WILES, J.S., VICK, J.A. and CHRISTENSEN, M.K. Toxicological evaluation of palytoxin in several animal species. Toxicon 12, 427, 1974.
- 1455 YAFFEE, H.S. Irritation from red sponge. New Engl. J. Med. 282, 51, 1970.
- 1456 YAFFEE, H.S. and STARGARDTER, F. Erythema multiforme from Tedania ignis. Arch. Derm. 87, 601, 1963.
- 1457 ZERVOS, S.G. La maladie des pêcheurs d'éponges. Paris Med. 93, 89, 1934.
- 1458 ZLOTKIN, E. Chemistry of animal venoms. Experientia 29, 1453, 1973.

CHAPTER V

CNIDARIA (Coelenterates)

This chapter lists the references that relate to the toxic Cnidaria, or Coelenterata (hydroids, jellyfish, sea anemones, and corals). These animals are simple metazoans possessing two basic tissues found in higher animals and a third tissue or layer of jelly-like material with supporting elastic fibers between the ectoderm and endoderm, known as mesoglea. They also have a gastrovascular cavity that opens only through the mouth, radial symmetry, and tentacles bearing nematocysts. The stinging unit of the cnidarians is the nematocyst, of which there are many kinds. Approximately 10,000 species of Cnidaria exist, and about 80 of these having been implicated in stings on humans. Some anemones are poisonous on ingestion.

- 1459 ABE, N. Feeding behavior and the nematocyst of *Fungia* and 15 other species of corals. Palao Trop. biol. Sta. Stud. 1, 469, 1937.
- 1460 ABEL, E.F. Ein Beitrag zur Giftwirkung der Aktinien und Funktion der Randsäckchen. Zool. Anz. 153, 239, 1954.
- 1461 ABITA, J.-P., CHICHEPORTICHE, R., SCHWETIZ, H. and LAZDUNSKI, M. Effects of neurotoxins (veratridine, sea anemone toxin, tetrodotoxin) on transmitter accumulation and release by nerve terminals in vitro. Biochemistry 16, 1838, 1977.
- 1462 ABRIC, M.P. Sur le fonctionnement des coelenteres. C.R. Seanc. Soc. Biol. 56, 1008, 1904.
- 1463 ACKERMANN, D. Ueber die Identität des Aktinins mit dem Butyrobetain. Z. Biol. 86, 199, 1927.
- 1464 ACKERMANN, D. Ueber das Vorkommen von Homarin, Trigonellin und einer neuen Base Anemonin in der Anthozoe *Anemonia sulcata*. Hoppe-Seyler's Z. physiol. Chem. 293, 1, 1953.
- 1465 ACKERMANN, D. Richtigstellung: "Zoo-Anemonin" statt Anemonin. Hoppe-Seyler's Z. physiol. Chem. 296, 286, 1954.
- 1466 ACKERMANN, D. and JANKA, R. Konstitution und Synthese des Anemonins. Z. phys. Chem. 294, 93, 1953.
- 1467 ACKERMAN, D. and LIST, P.H. Über das Vorkommen von Taurobetain, Taurin und Inosit im Riesen Kieselchwamm. Hoppe-Seyler's Z. physiol. Chem. 317, 78, 1959.
- 1468 ACKERMANN, D. and LIST, P.H. Zur Konstitution des Zooanemonins und des Herbipolins. Hoppe-Seyler's Z. physiol. Chem. 318, 28, 1960.
- 1469 ACKERMANN, D., HOLTZ, F. and REINWEIN, H. Reindarstellung und Konstitutionsermittlung des Tetramins, eines Giftes aus *Aktinia equina*. Zeit. Biol. 79, 113, 1923.
- 1470 ACKERMANN, D., HOLTZ, F. and REINWEIN, H. Über das Aktinin. Zeit. Biol. 81, 61, 1924.
- 1471 ACKERMANN, D., HOLTZ, F. and REINWEIN, H. Über die Extraktstoffe von *Aktinia equina*. Zeit. Biol. 80, 131, 1924.
- 1472 ALLEN, A.H. A case of poisoning by jellyfish. U.S. Navy med. Bull. 14, 396, 1920.
- 1473 ALLNUTT, E.G. The effects of a sting by a poisonous coelenterate. J. Roy. Army Corps 46, 211, 1926.
- 1474 ALSEN, C. Cardiotoxic effect of two toxins isolated from the sea anemone. Arch. Pharmacol. 287, 105, 1975.
- 1475 ALSEN, C. and REINBERG, T. Characterization of the pharmacological and toxicological actions of two toxins isolated from the sea anemone (*Anemonia sulcata*). Bull. Inst. Pasteur 74, 117, 1976.
- 1476 ALSEN, C. and TESSERAUX, I. Further results on the cardiotoxic activity of two basic polypeptides from *Anemonia sulcata*. 5th Intern. Symp. Animal, Plant, Microbial Toxins, San Jose, Costa Rica, p. 79, 1976 (Abst.).
- 1477 ALSEN, C., BÉRESS, L. and TESSERAUX, I. Toxicities of sea anemone (*Anemonia sulcata*) polypeptides in mammals. Toxicon 16, 561, 1978.

- 1478 ALSEN, C., SCHEUFLE, E. and TESSERAUX, I. Investigations about the mode of action of a toxin (ATX_{II}) isolated from the sea anemone *Anemonia sulcata*. Deut. Pharmakol. Ges. 16, 1977 (Abst.).
- 1479 ALSEN, C., BÉRESS, L., FISCHER, K. et al. The action of a toxin from the sea anemone *Anemonia sulcata* upon mammalian heart muscles. N.-S. Arch. exp. Path. Pharmacol. 295, 35, 1976.
- 1480 ANDERSON, P.A.V. Ionic basis of action potentials and bursting activity in the hydromedusan jellyfish *Polyorchis penicillatus*. J. exp. Biol. 78, 299, 1979.
- 1481 ANON. Poisonous jelly-fish. Science II, p. 146, 1888.
- 1482 ANON. Sting of the Portuguese man-of-war. J.A.M.A. 56, 1213, 1911.
- 1483 ANON. Fish poisons. (Notes and Comments). U.S. Navy med. Bull. 20, 466, 1924.
- 1484 ANON. Jellyfish lesions in a bather. Clin. J., London 63, 259, 1934.
- 1485 ANON. Bites and stings. Technical Manual, Guides to Therapy for Medical Officers, U.S. TM 8-210, 74, 1942.
- 1486 ANON. Common emergencies and health measures: 32. Jelly fish, Portuguese man-of-war, and nettle stings. Basic Field Manual, First Aid for Soldiers. U.S. FM 21-11, 37, 1943.
- 1487 ANON. Jellyfish sting. What's New (72), 14, 1943.
- 1488 ANON. Poisoning by snakes, plants, and fish. Arctic, Desert and Tropic Info. Center Med., U.S., Series I, p. 16, 1944.
- 1489 ANON. Sea nettles or jellyfishes. U.S. Fish Wildl. Serv., Fish. Bull. 68, 1, 1944.
- 1490 ANON. Giant jellyfish kills boy 10. Los Angeles Times, Dec. 19, 1949.
- 1491 ANON. Jellyfish causes certain death. Fresno Bee, May 25, 5a, 1954.
- 1492 ANON. General discussion. Proc. First Intern. Convention Life Saving Techniques, Part III, Sci. Sect., Bull. Post Grad. Comm. Med., Univ. Sydney, Australia, p. 82, 1963.
- 1493 ANON. Plenary session: report of "B" group. Proc. First Intern. Convention Life Saving Techniques, Part III, Sci. Sect., Bull. Post Grad. Comm. Med., Univ. Sydney, Australia, p. 121, 1963.
- 1494 ANON. Irukandji stings. Lancet (2), 190, 1964.
- 1495 ANON. Sea wasp sting kills child. Sydney Daily Telegraph, Feb. 23, 1964.
- 1496 ANON. Beware the man-of-war. Time, Mar. 27, p. 48, 1964.
- 1497 ANON. Bites and stings. Therap. Notes 73, 59, 1966.
- 1498 ANON. Protection against sea nettle sting. J.A.M.A. 201, 32, 1967.
- 1499 ANON. Australian scientists study sea wasp, a deadly jellyfish. Hosp. Trib. 2, 16, 1968.
- 1500 ANON. Jellyfish poisoning. Undercurrents 1 (3), 1, 1968.
- 1501 ANON. Jellyfish—not so harmless. Am. Soc. Oceanogr. Newslett. p. 4, June, 1969.
- 1502 ANON. Jellyfish stings. M.D. 13, 85, 1969.

- 1503 ANON. Sea-wasp sting in Australia. J.A.M.A. 211, 1863, 1970.
- 1504 ANON. The sting of the sea. Emerg. Med., p. 4, July, 1971.
- 1505 ANON. Vaccine is developed to combat sting of Australia's sea wasps. Med. Trib. World Serv. 13, 4, 1972.
- 1506 ANON. Jellyfish. Who needs them? Aminco Lab. News 29, 13, 1973.
- 1507 ANON. Poisonous invertebrates also cause some concern. J.A.M.A. 225, 1299, 1973.
- 1508 ANON. Water, water everywhere. Emerg. Med. 5, 108, 1973.
- 1509 ANON. [Studies of venomous medusa Gonionemus vertens vertens.] Akad. Nauk SSSR, Inst. Biol. Morya, Sbornik Rabot 2, 1974.
- 1510 ANON. Coral danger. Fish. News Intern. 17, 64, 1978.
- 1511 ANON. Jaws that bite, things that sting. (Interview with Dr. F.E. Russell). Emerg. Med. 10, 24, 1978; see also Back to Basics. Cohen, I.J. (ed.), E.M. Books: N.Y., p. 271, 1979.
- 1512 AOKI, T. Über Medusenstichkrankheit. Japan. Z. Derm. Urol. 22, 835, 1922.
- 1513 AOKI, T. Poisoning by the sticking of Olindioides formosa GOTO. Jpn. med. Wid. 3, 55, 1923.
- 1514 ARNDT, W. Die Spongern als kryptotoxische Tiere. Zool. Jahrb. 45, 343, 1928.
- 1515 ARNOLD, H.L., JR. Portuguese man-of-war ("blue-bottle") stings; treatment with papain. Proc. Straub Clinic, Honolulu, 1971.
- 1516 ATTAWAY, D.H. Isolation and partial characterization of Caribbean palytoxin. Thesis, Univ. Oklahoma, 1968.
- 1517 AZNAURIAN, M.S. Clinical effects of the venomous medusae of the Far East. Klin. Med., Moscow 36, 105, 1958.
- 1518 AZNAURIAN, M.S. Venomous medusa of Primorye and toxic effects on humans. Med. Parasitol. Parasit. Dis., Moscow 33, 443, 1964.
- 1519 AZNAURIAN, M.S. The venomous Gonionemus jellyfish. Akad. Nauk USSR, Vladivostok, 34p., 1964.
- 1520 BACQ, Z.M. Recherches sur la physiologie et la pharmacologie du système nerveux autonome. XVII. Les esters de la choline dans les extraits de tissus des Invertébrés. Arch. intern. Physiol. 42, 24, 1935.
- 1521 BADEN, H.P. and BURNETT, J.W. Injuries from sea urchins. South. med. J. 70, 459, 1977.
- 1522 BAGLIONI, S. Zur Kenntnis der physiologischen Wirkung des Cephalopodengiftes. Z. Biol. 52, 130, 1908.
- 1523 BAGNIS, R., BERGLUND, F., ELIAS, P.S. et al. Problems of toxicants in marine food products. I. Marine biotoxins. Bull. Wld. Hlth. Org. 42, 69, 1970.
- 1524 BARNES, J.H. Observations on jellyfish stings in North Queensland. Med. J. Aust. (2), 993, 1960.
- 1525 BARNES, J.H. Stings by jellyfish. Proc. First Intern. Convention Life Saving Techniques, Part III, Sci. Sect., Bull. Post Grad. Comm. Med., Univ. Sydney, Australia, p. 103, 1963.

- 1526 BARNES, J.H. Cause and effect in Irukandji stings. Med. J. Aust (1), 897, 1964.
- 1527 BARNES, J.H. Siphonophores: part 2. J. N. Queensland nat. Club 32, 5, 1964.
- 1528 BARNES, J.H. Chironex fleckeri and Chiropsalmus quadrigatus—morphological distinctions. N. Queensland Nat. 32, 13, 1965.
- 1529 BARNES, J.H. A diagnostic procedure for marine stings. Roy. Aust. Nurs. med. Newslett. 3 (1), 13, 1965.
- 1530 BARNES, J.H. Major stinging jellyfish—tropical Australian coast. (Chart). G.K. Bolton: Cairns, 1965.
- 1531 BARNES, J.H. On Irukandji stinging and its medusa. In, Injuries to Man from Marine Invertebrates in the Australian Region. Cleland, J.B. and Southcott, R.V. (eds.), Natn. Hlth. & Med. Res. Council, Hlth. Dept., Commonwealth Australia: Canberra, p. 140, 1965.
- 1532 BARNES, J.H. Studies on three venomous cubomedusae. In, The Cnidaria and Their Evolution. Academic: London, p. 307, 1966.
- 1533 BARNES, J.H. Marine stingers. Recognition and first aid treatment. Queensland Hlth. Ed. Council, Brisbane, Hlth. Ed. Publ. (114), 1966-67.
- 1534 BARNES, J.H. Extraction of cnidarian venom from living tentacle. In, Animal Toxins. Russell, F.E. and Saunders, P.R. (eds.), Pergamon: Oxford, p. 115, 1967; see also Toxicon 4, 292, 1967 (Abst.).
- 1535 BARNES, J.H. and KRAMP, P.L. Some medusae from North Australia. Roy. Soc. S. Aust. Trans. 85, 197, 1961.
- 1536 BAXTER, E.H. and LANE, W.R. Recent investigations on sea-wasp stings in Australia. Med. J. Aust. (57), 508, 1970.
- 1537 BAXTER, E.H. and MARR, A.G.M. Sea wasp (Chironex fleckeri) venom: lethal, haemolytic and dermonecrotic properties. Toxicon 7, 195, 1969.
- 1538 BAXTER, E.H. and MARR, A.G.M. Sea wasp (Chironex fleckeri) anti-venene: neutralizing potency against the venom of three other jellyfish species. Toxicon 12, 223, 1974.
- 1539 BAXTER, E.H. and MARR, A.G.M. Sea wasp toxoid: an immunizing agent against the venom of the box jellyfish, Chironex fleckeri. Toxicon 13, 423, 1975.
- 1540 BAXTER, E.H., MARR, A.G. and LANE, W.R. Immunity to the venom of the sea wasp Chironex fleckeri. Toxicon 6, 45, 1968.
- 1541 BAXTER, E.H., WALDEN, N.B. and MARR, A.G. Intensive repeated plasmapheresis for maximum yields of antibodies from a sheep immunized with a valuable antigen. Lab. Anim. Care 22, 109, 1972.
- 1542 BAXTER, E.H., WALDEN, N.B., LIEFMAN, C.E. and MARR, A.G.M. Fatal intoxication of rabbits, sheep and monkeys by the venom of the sea wasp (Chironex fleckeri). Toxicon 10, 653, 1972.
- 1543 BEDOT, M. Sur les cellules urticantes des siphonophores. Arch. Sci. phys. nat. 15, 415, 1886.
- 1544 BEDOT, M. Nots sur les cellules urticantes. Rev. Suisse Zool. 3, 533, 1896.

- 1545 BÉRESS, L. Giftige Meerestiere. Umschau-Kurzberichte 74, 644, 1974.
- 1546 BÉRESS, L. Effect on fishes of two toxic polypeptides isolated from Anemonia sulcata. Mar. Biol. 32, 190, 1975.
- 1547 BÉRESS, L. Biologically active polypeptides, toxins and proteinase inhibitors from the sea anemones Anemonia sulcata and Condylactis aurantiaca. In, Drugs and Food from the Sea. Myth or Reality? Kaul, P.N. and Sindermann, C.J. (eds.), Univ. Okla. Press: Norman, Okla., p. 59, 1978.
- 1548 BÉRESS, L. Anwendung säulen-chromatographischer und elektro-phoretischer Methoden bei der Isolierung und Charakterisierung von toxischen Polypeptiden aus der Seeanemone Anemonia sulcata. GIT Labor-Medizin, p. 43, 1978.
- 1549 BÉRESS, L. Biologisch aktive polypeptide aus den Seeanemonen Anemonia sulcata, Condylactis aurantiaca und Bolocera tuediae. Dissertation, Inst. Meereskunde, Christian-Albrechts-Univ., Kiel, 1979.
- 1550 BÉRESS, L. and BÉRESS, R. Reinigung zweier krabbenlähmender Toxine aus der Seeanemone Anemonia sulcata. Kieler Meeresforsch. 27, 117, 1971.
- 1551 BÉRESS, L. and BÉRESS, R. Purification of biologically active polypeptides from the sea anemone Anemonia sulcata. 9th Meet. FEBS, Ungarn, 1974.
- 1552 BÉRESS, L. and KREBS, H.C. Purification of some peptides from Anemonia sulcata. 2nd Europ. Symp. Animal, Plant, Microbial Toxins, p. 20, 1977.
- 1553 BÉRESS, L. and KREBS, H.C. Purification of some nontoxic polypeptides from Anemonia sulcata. Toxicon 16, 417, 1978 (Abst.).
- 1554 BÉRESS, L., BÉRESS, R. and WUNDERER, G. Purification of three polypeptides with neuro- and cardiotoxic activity from the sea anemone Anemonia sulcata. Toxicon 13, 359, 1975.
- 1555 BÉRESS, L., BÉRESS, R. and WUNDERER, G. Isolation and characterization of three polypeptides with neurotoxic activity from Anemonia sulcata. F.E.B.S. Lett. 50, 311, 1975.
- 1556 BÉRESS, L., BÉRESS, R. and WUNDERER, G. Purification of polypeptides with neurotoxic and cardiotoxic activity from the sea anemones Anemonia sulcata and Condylactis aurantiaca. Bull. Inst. Pasteur 74, 113, 1976.
- 1557 BÉRESS, L., BÉRESS, R. and WUNDERER, G. Isolation and characterization of toxic polypeptides from sea anemones. In, Marine Natural Products Chemistry. Faulkner, D.J. and Fenical, W.H. (eds.), Plenum: N.Y., p. 289, 1977.
- 1558 BÉRESS, L., WUNDERER, G. and WACHTER, E. Amino acid sequence of toxin III from Anemonia sulcata. Hoppe-Seyler's Z. physiol. Chem. 358, 985, 1977.
- 1559 BÉRESS, L., WUNDERER, G., BÉRESS, R. and FRITZ, H. Isolation and characterization of biologically active polypeptides (toxins and proteinase inhibitors) from sea anemones (Anemonia sulcata) and Condylactis aurantiaca. Food-Drugs from the Sea Conf., Okla., 1977 (Abst.).

- 1560 BÉRESS, L., WUNDERER, G., BÉRESS, R. and ZWICK, J. Purification of neuro- and cardiotoxic polypeptides from sea anemones. 5th Intern. Symp. Animal, Plant, Microbial Toxins, San Jose, Costa Rica, p. 42, 1976 (Abst.).
- 1561 BÉRESS, R., BÉRESS, L. and WUNDERER, G. Purification and characterization of four polypeptides with neurotoxic activity from *Condylactis aurantiaca*. Hoppe-Seyler's Z. physiol. Chem. 357, 409, 1976.
- 1562 BERGMAN, C., DUBOIS, J.-M., ROJAS, E. and RATHMAYER, W. Inhibition de l'inactivation sodium de la membrane nodale par la toxine II d'*Anemonia sulcata*. C.R. Acad. Sci., Paris 282, 1881, 1976.
- 1563 BERGMAN, C., DUBOIS, J.-M., ROJAS, E. and RATHMAYER, W. Decreased rate of sodium conductance inactivation in the node of Ranvier induced by a polypeptide toxin from sea anemone. Biochim. biophys. Acta 455, 173, 1976.
- 1564 BERGMANN, W. and LANDOWNE, R.A. Contributions to the study of marine products; XLVI. Phospholipids of a sea anemone. J. org. Chem. 23, 1241, 1958.
- 1565 BERGMANN, W., CREIGHTON, S.M. and STOKES, W.M. Contributions to the study of marine products; XL. Waxes and triglycerides of sea anemone. J. org. Chem. 21, 721, 1956.
- 1566 BERGMANN, W., FEENEY, R.J. and SWIFT, A.N. Contributions to the study of marine products; XXXI. Palysterol and other lipid components of sea anemones. J. org. Chem. 16, 1337, 1951.
- 1567 BERGMANN, W., MC LEAN, M.J. and LESTER, D. Contributions to the study of marine products; XIII. Sterols from various marine invertebrates. J. org. Chem. 8, 271, 1943.
- 1568 BERNHEIMER, A.W. and AVIGAD, L.S. Properties of a toxin from the sea anemone *Stoichactis helianthus*, including specific binding to sphingomyelin. Proc. natn. Acad. Sci. 73, 467, 1976.
- 1569 BERNHEIMER, A.W. and AVIGAD, L.S. A cholesterol-inhibitable cytolytic protein from the sea anemone *Metridium senile*. Biochim. biophys. Acta 541, 96, 1978.
- 1570 BERNHEIMER, A.W., AVIGAD, L.S. and KIM, K.-S. Comparison with metridiolysin from the sea anemone with thiol-activated cytolytins from bacteria. Toxicon 17, 69, 1979.
- 1571 BERNSTEIN, M. Beware the Portuguese man-of-war. Nat. Hist. 56, 136, 1947.
- 1572 BERNSTROP, J.C. Over ziekteverschijnselen veroorzaakt door in de Noordzee voorkomende kwalen. Geneesk. Tijdschr. Ned.-Ind. 78, 2084, 1934.
- 1573 BINET, L., BURNSTEIN, M. and LEMAIRE, R. Les effets hypotenseurs et anaphylactisants des extraits de physalie. C.R. Acad. Sci. 233, 565, 1951.
- 1574 BLANQUET, R. Properties and composition of the nematocyst toxin of the sea anemone, *Aiptasia pallida*. Comp. Biochem. Physiol. 23, 893, 1968.
- 1575 BLANQUET, R. Ionic effects on the discharge of the isolated and in situ nematocysts of the sea anemone, *Aiptasia pallida*; a possible

- role of calcium. Comp. Biochem. Physiol. **35**, 451, 1970.
- 1576 BLANQUET, R.S. A toxic protein from the nematocysts of the scyphozoan medusa, Chrysaora quinquecirrha. Toxicon **10**, 103, 1972.
- 1577 BLANQUET, R. Cnidarian venoms. In, Perspectives in Toxicology. Bernheimer, A.W. (ed.), John Wiley & Sons: N.Y., p. 149, 1977.
- 1578 BLANQUET, R. and LENHOF, H.M. A disulfide-linked collagenous protein of nematocyst capsules. Science **154**, 152, 1966.
- 1579 BOISSEAU, J.P. Recherches sur l'histochimie des Cnidaires et de leurs nematocysts. Bull. Soc. zool. Fr. **77**, 151, 1952.
- 1580 BONIS. Les effets locaux et généraux du contact des Physalies. Concours Med. **69**, 930, 1947.
- 1581 BOSCHMAN, H. Notes on the stylasterine coral Allopora subviolacea Kent. Proc. Koninklijke Nederl. Akad. Van Wetenschappen. Ser. C., Biol. Med. Sci. **69**, 267, 1966.
- 1582 BOUCHET, C. Le controle de la décharge nematocystique chez l'Hydre. C.R. Acad. Sci. **252**, 327, 1961.
- 1583 BOYE, L.V. Echinodermata et Coelenterata. In, Traité de pathologie clinique, et thérapeutique. Grall, C. and Clarac, A. (eds.), Paris, p. 434, 1911.
- 1584 BRESLAU, F.P. Actini kraemeri, die ebbare seeanemone der Samoainseln. Zool. Anz. **44**, 411, 1914.
- 1585 BRINKMAN, H.M. and RAVENS, U. Dependence of the ouabain-induced changes in action potentials and force of contraction on stimulation frequency. Deutsche Pharmakol. Ges. p. 17, Spring 1976.
- 1586 BRIOT, A. Sur le rôle des glandes salivaires des céphalopodes. C.R. Soc. Biol. **57**, 386, 1905.
- 1587 BRIOT, A. Sur le mode d'action du venin des céphalopodes. C.R. Soc. Biol. **57**, 386, 1905.
- 1588 BROWN, C.H. Keratins in invertebrates. Nature **166**, 439, 1950.
- 1589 BRUHN, H.D. and BÉRESS, L. Polyvalent proteinase inhibitors from the sea anemone sulcata: effect on coagulation and fibrinolysis. (Letter) Thrombosis Haemostasis **39**, 552, 1978.
- 1590 BULLARD, W.E. Alcohol in the treatment of poisoning by the Portuguese man-of-war. J.A.M.A. **56**, 1346, 1911.
- 1591 BURKHOLDER, P.R. and BURKHOLDER, L.M. Antimicrobial activity of horny corals. Science **127**, 1174, 1958.
- 1592 BURN, J.H. and DALE, H.H. The action of certain quaternary ammonium bases. J. Pharmacol. **6**, 417, 1915.
- 1593 BURNETT, A.L., LENTZ, T. and WARREN, M. The nematocyst of hydra. I. The question of control of the nematocyst discharge reaction by fully fed hydra. Ann. Soc. Roy. Zool. Belg. **90**, 1, 1959.
- 1594 BURNETT, J.W. An ultrastructural study of the nematocysts of the polyp of Chrysaora quinquecirrha. Chesapeake Sci. **12**, 225, 1971.
- 1594 BURNETT, J.W. An electron microscopic study of two nematocytes in the tentacle of Cyanea capillata. Chesapeake Sci. **12**, 67, 1971.

- 1595 BURNETT, J.W. and CALTON, G.J.
Purification of sea nettle nematocyst toxins by gel diffusion. Toxicon 11, 243, 1973.
- 1596 BURNETT, J.W. and CALTON, G.J.
The enzymatic content of the venoms of the sea nettle and the Portuguese man-o-war. Comp. Biochem. Physiol. 47B, 815, 1974; see also Fed. Proc. 33, 247, 1974.
- 1597 BURNETT, J.W. and CALTON, G.J.
Sea nettle and man-o-war venoms: a chemical comparison of their venoms and studies on the pathogenesis of the sting. J. invest. Derm. 62, 372, 1974.
- 1598 BURNETT, J.W. and CALTON, G.J.
A toxicological comparison of three venomous jellyfish. Lloydia 37, 641, 1974 (Abst.).
- 1599 BURNETT, J.W. and CALTON, G.J.
Some chemical and pharmacological studies of two venomous jellyfish. In, Animal, Plant and Microbial Toxins. Ohsaka, A., Hayashi, K. and Sawai, Y. (eds.), Plenum: N.Y., vol. 2, p. 337, 1976; see also Toxicon 13, 88, 1975 (Abst.).
- 1600 BURNETT, J.W. and CALTON, G.J.
A comparison of the toxicology of the nematocyst venom from sea nettle fishing and mesenteric tentacles. Toxicon 14, 109, 1976.
- 1601 BURNETT, J.W. and CALTON, G.J.
Review article: the chemistry and toxicology of some venomous pelagic coelenterates. Toxicon 15, 177, 1977.
- 1602 BURNETT, J.W. and CALTON, G.J.
Use of IgE antibody determinations in cutaneous coelenterate envenomations. Cutis 27, 50, 1980.
- 1603 BURNETT, J.W. and GOLDNER, R.
The effect of sea nettle (*Chrysaora quinquecirrha*) nematocyst toxin on the rat cardiovascular system. Proc. Soc. exp. Biol. 132, 353, 1969.
- 1604 BURNETT, J.W. and GOLDNER, R.
Effect of *Chrysaora quinquecirrha* (sea nettle) toxin on rat nerve and muscle. Toxicon 8, 179, 1970.
- 1605 BURNETT, J.W. and GOLDNER, R.
Partial purification of sea nettle (*Chrysaora quinquecirrha*) nematocyst toxin. Proc. Soc. exp. Biol. Med. 133, 978, 1970.
- 1606 BURNETT, J.W. and GOLDNER, R.
Some immunological aspects of sea nettle toxins. Toxicon 9, 271, 1971.
- 1607 BURNETT, J.W. and GOULD, W.M.
Further studies on the purification and physiological actions of sea nettle toxin. Proc. Soc. exp. Biol. 138, 759, 1971.
- 1608 BURNETT, J.W. and GOULD, W.M.
Immunodiffusion—a technique for coelenterate polyp identification. Comp. Biochem. Physiol. 40, 855, 1971.
- 1609 BURNETT, J.W. and SUTTON, J.S.
The fine structural organization of the sea nettle fishing tentacle. J. exp. Zool. 172, 335, 1969.
- 1610 BURNETT, J.W., CALTON, G.J. and CARGO, D.G.
Recent investigation on the nature and action of sea nettle toxins. Intern. Cong. Derm., Ser. 289, p. 768, May 1972.
- 1611 BURNETT, J.W., GOULD, W.M. and GOLDNER, R.
Sea nettle toxin. Immunologic protection from cutaneous stings and other biological effects with studies on the effect of percutaneous sodium transport. Clin. Res. 19, 359, 1971 (Abst.).

- 1612 BURNETT, J.W., WARNICK, J.E. and WEINRICH, D. Sea nettle toxin. Looking for a site of action. Fed. Proc. 37, 787, 1978 (Abst.).
- 1613 BURNETT, J.W., CALTON, G.J., MEIER, H. and KAPLAN, P. Mediators present in the nematocyst venoms of the sea nettle, sea wasp and Portuguese man-o-war. Comp. Biochem. Physiol. 51C, 153, 1975.
- 1614 BURNETT, J.W., CALTON, G.J., MEIER, H. and KAPLAN, P. A study on the kinin activity of three venomous jellyfish. Comp. Biochem. Physiol. 51C, 153, 1975.
- 1615 BURNETT, J.W., PIERCE, L.H., JR., NAWACHINDA, R. and STONE, J.H. Studies on sea nettle stings. Arch. Derm. 98, 587, 1968.
- 1616 BURNETT, J.W., STONE, J.H., PIERCE, L.H. et al. A physical and chemical study of sea nettle nematocysts and their toxin. J. invest. Derm. 51, 330, 1968.
- 1617 BURNETT, J.W., STONE, J.H., PIERCE, L.H., JR. et al. Studies on the structure, discharge and toxin of sea nettle nematocysts. Fed. Proc. 27, 504, 1968.
- 1618 BYRNE, K. Coral cut. Med. J. Aust. (2), 649, 1924.
- 1619 CALDER, D.R. Nematocysts of Aurelia, Chrysaora and Cyanea and their utility in identification. Trans. Am. microsc. Soc. 90, 269, 1971.
- 1620 CALMETTE, A. Les Venins. Les Animaux Venimeux et la Sérothérapie Antivenimeuse. Masson & Cie: Paris, 396p., 1907.
- 1621 CALMETTE, A. Venoms. Venomous Animals and Antivenomous Serum-Therapeutics. John Bale, Sons & Danielson: London, 1908.
- 1622 CALTON, G.J. Purification of sea nettle nematocyst toxins by gel diffusion. Toxicon 11, 243, 1973.
- 1623 CALTON, G.J. and BURNETT, J.W. Isolation of sea nettle nematocyst toxins. Clin. Res. 20, 416, 1972.
- 1624 CALTON, G.J. and BURNETT, J.W. The purification of Portuguese man-of-war nematocyst toxins by gel diffusion. Comp. gen. Pharmac. 4, 267, 1973.
- 1625 CALTON, G.J. and BURNETT, J.W. The effect of two jellyfish toxins on calcium ion transport. Toxicon 11, 357, 1973.
- 1626 CALTON, G.J. and BURNETT, J.W. Sea nettle nematocysts: anatomy, toxicology and chemistry. In, Food-Drugs from the Sea-Proceedings 1972. Worthen, L.B. (ed.), Mar. Tech. Soc.: Washington, p. 147, 1973.
- 1627 CALTON, G.J. and BURNETT, J.W. The enzymatic content of sea nettle and Portuguese man-of-war nematocyst venoms. Fed. Proc. 33, 247, 1974.
- 1628 CALTON, G.J. and BURNETT, J.W. A comparison of the nematocyst venom in different sea nettle tentacles. Fed. Proc. 34, 225, 1975 (Abst.).
- 1629 CALTON, G.J. and BURNETT, J.W. The assessment of pain following coelenterate envenomations. Toxicon 16, 679, 1978.
- 1630 CALTON, G.J., BURNETT, J.W. and STALING, L.M. The Maryland blue crab: an experimental animal for cardiotoxicological investigations. In, Drugs and Food from the Sea. Myth or Reality? Kaul, P.N. and Sindermann, C.J. (eds.), Univ. Okla. Press, Norman, Okla., 1978.

- 1631 CALTON, G.J., BURNETT, J.W. and VADER, W. A study of the nematocyst venoms of the sea anemone, Bolocera tuediae. Toxicon 16, 443, 1978.
- 1632 CALTON, G.J., GOULD, W.M. and BURNETT, J.W. Further purification of sea nettle toxin and its action on membranes. Fed. Proc. 31, 253, 1972 (Abst.).
- 1633 CALTON, G.J., BURNETT, J.W., GARBUS, J. and MAX, S.R. The effects of Chrysaora and Physalia venoms on mitochondrial structure and function. Proc. Soc. exp. Biol. 143, 1971, 1973.
- 1634 CALTON, G.J., BURNETT, J.W., RUBINSTEIN, H. and HEARD, J. The effect of two jellyfish toxins on calcium ion transport. Toxicon 11, 357, 1973.
- 1635 CAMERON, A.M. Toxicity phenomena in coral reef waters. Proc. 2nd Intern. Coral Reef Symp. I, 313, 1974.
- 1636 CANTACUZÈNE, J. Action toxique des poisons d'Adamsia palliata sur les crustacés décapodes. C.R. Soc. Biol. 92, 1131, 1925.
- 1637 CANTACUZÈNE, J. Immunité d'Eupagurus prideauxii vis-à-vis des poisons d'Adamsia palliata. C.R. Soc. Biol. 92, 1133, 1925.
- 1638 CANTACUZÈNE, J. Activation des poisons de l'Adamsia palliata par la lécithine et pouvoir hémolytique. C.R. Soc. Biol. 95, 118, 1926.
- 1639 CANTACUZÈNE, J. and COSMOVICI, N. Action toxique de poisons d'Adamsia palliata sur divers invertébrés marins. C.R. Soc. Biol. 92, 1464, 1925.
- 1640 CANTACUZÈNE, J. and DAMBOVIDNEAU A. Caractères biologiques de l'extrait des acconties d'Adamsia palliata après déprotéinisation. C.R. Soc. Biol. 117, 136, 1934.
- 1641 CANTACUZÈNE, J. and DAMBOVIDNEAU, A. Caractères physico-chimiques du poison des acconties d'Adamsia palliata. C.R. Soc. Biol. 117, 138, 1934.
- 1642 CANTACUZÈNE, J. and DAMBOVIDNEAU, A. L'action précipitante spécifique du sérum d'Eupagurus prideauxii sur les poisons d'Adamsia palliata. C.R. Soc. Biol. 117, 269, 1934.
- 1643 CARGO, D.G. and SCHULTZ, L.P. Notes on the biology of the sea nettle, Chrysaora quinquecirrha, in Chesapeake Bay. Chesapeake Sci. 7, 95, 1966.
- 1644 CARGO, D.G. and SCHULTZ, L.P. Further observations on the biology of the sea nettle and jellyfishes in Chesapeake Bay. Chesapeake Sci. 8, 209, 1967.
- 1665 CARIELLO, L. and D'ANIELLO, A. Isolation and characterization of four toxic protein fractions from the sea anemone Anemonia sulcata. Toxicon 13, 353, 1975.
- 1666 CASTELLINO, P.G. Dermatose professionali e alterazioni cutanee dei lavoratori del corallo. Folia med., Naples 23, 132, 1937.
- 1667 CATALA, R.L. Carnival Under the Sea. R. Sicard: Paris, 141p., 1964.
- 1668 CATTERALL, W.A. Neurotoxins as allosteric modifiers of voltage-sensitive sodium channels. In, Advances in Cytopharmacology. Ceccarelli, B. and Clementi, F. (eds.), Raven: N.Y., vol. 3, p. 305, 1979.
- 1669 CATTERALL, W.A. and BÉRESS, L. Sea anemone toxin and scorpion

- toxin share a common receptor site associated with the action potential sodium ionophore. J. biol. Chem. 253, 7393, 1978.
- 1670 CHAPMAN, G.B. The fine structure of the stenoteles of *Hydra*. In, The Biology of Hydra and of Some Other Coelenterates. Lenhoff, H.M. and Loomis, W.F. (eds.), Univ. Miami Press: Coral Gables, Fla., p. 131, 1961.
- 1671 CHAPMAN, G.B. and TILNEY, L.G. Cytological studies of the nematocysts of *Hydra*. J. biophys. biochem. Cytol. 5, 69, 1959.
- 1672 CHU, G.W. and CUTRESS, C.E. Human dermatitis caused by marine organisms in Hawaii. Proc. Hawaii Acad. Sci., p. 9, 1953.
- 1673 CHU, G.W. and CUTRESS, C.E. Dermatitis due to contact with the hydroid, *Syncoryne mirabilis* (Agassiz, 1862). Hawaii med. J. 14, 403, 1955.
- 1674 CHUN, C. Die Natur und Wirkungsweise der Nesselzellen bei Coelenteraten. Zool. Anz. 4, 646, 1881.
- 1675 CHUN, C. Die mikroskopischen Waffen der Coelenteraten. Humboldt-Monatsschr. ges. Natur. 1, 34, 1882.
- 1676 CIERESZKO, L.S. Chemistry of coelenterates, III. Occurrence of antimicrobial terpenoid compounds in the zooanthellae of alcyonarians. Trans. N.Y. Acad. Sci. 24, 502, 1962.
- 1677 CIERESZKO, L.S., ODENSE, P.H. and SCHMIDT, R.W. Chemistry of coelenterates, II. Occurrence of taurobetaine and creatine in gorgonians. Ann. N.Y. Acad. Sci. 90, 920, 1960.
- 1678 CIERESZKO, L.S., SIFFORD, D.H. and WEINHEIMER, A.J. Chemistry of coelenterates, I. Occurrence of terpenoid compounds in gorgonians. Ann. N.Y. Acad. Sci. 90, 917, 1960.
- 1679 CILENTO, R. Some Poisonous Plants, Sea and Land Animals of Australia. W.R. Smith & Paterson Pty: Brisbane, 37p., 1944.
- 1680 CLELAND, J.B. Injuries and diseases in Australia attributable to animals (other than insects). Med. J. Aust. (2), 157, 1932.
- 1681 CLELAND, J.B. and SOUTHCOTT, R.V. Injuries to Man from Marine Invertebrates in the Australian Region. Commonwealth of Australia: Canberra, 1965.
- 1682 COLBY, M. Poisonous marine animals in the Gulf of Mexico. Proc. Trans. Texas Acad. Sci. 26, 62, 1943.
- 1683 COLLIER, H.O. The occurrence of 5-hydroxytryptamine (HT) in nature. In, 5-Hydroxytryptamine. Lewis, G.R. (ed.), Pergamon: London, p. 5, 1958.
- 1684 CONKLIN, E.J. and MARISCAL, R.N. Increase in nematocyst and spirocyst discharge in a sea anemone in response to mechanical stimulation. In, Coelenterate Ecology and Behavior. Mackie, G.O. (ed.), Plenum: N.Y., p. 549, 1976.
- 1685 CONKLIN, E.J., BIGGER, C.M. and MARISCAL, R.N. The formation and taxonomic microbasic Q-mastigophore nematocyst. Biol. Bull. 152, 159, 1977.
- 1686 CONTI, F., HILLE, B., NEUMCKE, B. and STAMPFLI, R. Conductance of the sodium channel in myelinated nerve fibres with modified

- sodium inactivation. J. Physiol., London **262**, 729, 1976.
- 1687 COOKE, T.S. and HALSTEAD, B.W. Report of stings by the coelenterate Rhizophysa eysenhardti Gegenbaur in California waters. Clin. Toxicol. **3**, 589, 1970.
- 1688 CORMIER, S.M. The ultrastructure of the nematocyst of Physalia physalis. Thesis, Univ. S. Florida, Tampa, 1978.
- 1689 CORMIER, S.M. and HESSINGER, D.A. Cnidocil apparatus: sensory receptor of Physalia nematocysts. J. Ultrastruct. Res. **72**, 13, 1980.
- 1690 CORMIER, S.M. and HESSINGER, D.A. Cellular basis for the tentacle adherence in the Portuguese man-of-war (Physalis physalis). Tissue and Cell **12**, 713, 1980.
- 1691 CORPEA, D.D. Taxonomia de anthozoa (Coelenterata) Brasileiros: distribuição e frequência en Aguas Brasileiras. Mem. Inst. Butantan Simp. Internac. **33**, 27, 1966 (publ. 1968).
- 1692 COSMOVICI, N.L. L'action des poisons d'Adamsia palliata sur les muscles de Carcinus moenas. C.R. Soc. Biol. **92**, 1230, 1925.
- 1693 COSMOVICI, N.L. L'action des poisons d'Adamsia palliata sur le coeur de Carcinus moenas. C.R. Soc. Biol. **92**, 1300, 1925.
- 1694 COSMOVICI, N.L. Les poisons de l'extrait aqueux des tentacules et des nématocystes d'Adamsia palliata sont-ils détruits par l'ébullition? Essais d'adsorption. C.R. Soc. Biol. **92**, 1373, 1925.
- 1695 COSMOVICI, N.L. Action convulsivante des poisons d'Adamsia palliata sur le Carcinus moenas. C.R. Soc. Biol. **92**, 1466, 1925.
- 1696 COURAD, F., ROCHAT, H. and LIS-SITZKY, S. Binding of scorpion and sea anemone neurotoxins to a common site related to the action potential Na⁺ ionophore in neuroblastoma cells. Biochem. biophys. res. Commun. **83**, 1525, 1978.
- 1697 CRONE, H.D. The toxic proteins of an Australian jellyfish Chironex fleckeri. Biochem. J. **121**, 28, 1971.
- 1698 CRONE, H.D. On the inactivation by gangliosides of the haemolytic protein toxin from the sea wasp (Chironex fleckeri). Toxicon **14**, 494, 1976.
- 1699 CRONE, H.D. Chemical modification of the haemolytic activity of extracts from the box jellyfish Chironex fleckeri (Cnidaria). Toxicon **14**, 97, 1976.
- 1700 CRONE, H.D. Assessment of gangliosides as membrane receptors for hemolytic toxin from Chironex fleckeri (box jellyfish). Proc. Aust. biochem. Soc. **9**, 63, 1976.
- 1701 CRONE, H.D. and KEEN, T.E.B. Chromatographic properties of the hemolysin from the cnidarian Chironex fleckeri. Toxicon **7**, 79, 1969.
- 1702 CRONE, H.D. and KEEN, T.E.B. Further studies on the biochemistry of the toxins of the sea wasp Chironex fleckeri. Toxicon **9**, 145, 1971.
- 1703 CRUTCHFIELD, E.D. Dermatitis produced by Portuguese man-of-war. Arch. Derm. Syph. **12**, 72, 1925.
- 1704 CULVER, P. and JACOBS, R.S. Inhibition of skeletal muscle contractions by a substance from soft coral. Fed. Proc. **39**, 609, 1980.

- 1705 CUTRESS, C.E. An interpretation of the structure and distribution of Cnidae in Anthozoa. Syst. Zool. 4, 120, 1955.
- 1706 DANA, J.D. Corals and Coral Islands. Dodd & Mead: N.Y., 398p., 1872.
- 1707 DAVENPORT, D. Symbioses and analysis of behavior. In, The Cnidaria and Their Evolution. Rees, J.W. (ed.), Academic: London, p. 361, 1966.
- 1708 DAVENPORT, D., ROSS, M. and SUTTON, L. The remote control of nematocyst discharge in the attachment of Calliactis parasitica to shell of hermit crabs. Vie et Mil. 12, 197, 1961.
- 1709 DE BARRY, J., FOSSET, M. and LAZDUNSKI, M. Molecular mechanism of the cardiotoxic action of a polypeptide neurotoxin from sea anemone on cultured embryonic cardiac cells. Biochemistry 16, 3850, 1977.
- 1710 DE CLERQ, M. Aperçu sur les recherches scientifiques effectuées dans le domaine de la toxicologie marine. Les animaux marins toxiphores. Ann. Biol. 3, 430, 1964.
- 1711 DEGUCHI, T. and URAKAWA, N. Pharmacological studies of palythoatoxin isolated from the zoanthid, Palythoa tuberculosa. Toxicol. 13, 89, 1975 (Abst.).
- 1712 DEGUCHI, T., URAKAWA, N. and TAKAMATSU, S. Some pharmacological properties of palythoatoxin isolated from the zoanthid, Palythoa tuberculosa. In, Animal Plant and Microbial Toxins. Ohsaka, A., Hayashi, K. and Sawai, Y. (eds.), Plenum: N.Y., vol. 2, p. 379, 1974.
- 1713 DE MARCO, R. Sull'azione neurotossica del veleno di trachina e sull'epilessia umana riflessa. Riv. Patol. Nerv. Ment. 47, 204, 1936.
- 1714 DE OREO, G.A. Dermatitis venenata resulting from contact with marine animals (Hydroids). Arch. Derm. Syph. 54, 637, 1946.
- 1715 DEVLIN, J.P. Isolation and partial purification of hemolytic toxin from sea anemone, Stoichactis helianthus. J. pharm. Sci. 63, 1478, 1974.
- 1716 DÖDERLEIN, P. The effect of Anemonia sulcata toxin ATX II on post rest adaptation in guinea pig papillary muscle. Deutsch. Pharmacol. Ges., p. 19, Spring 1978.
- 1717 DOIG, M.T., III, MARTIN, D.F. and PADILLA, G.M. Marine bioactive agents: chemical and cellular correlates. In, Marine Pharmacognosy. Action of Marine Biotoxins at the Cellular Level. Martin, D.F. and Padilla, G.M. (eds.), Academic: N.Y., p. 1, 1973.
- 1718 DRURY, J.K., NOONAN, J.D., POLLOCK, J.G. and REID, W.H. Jellyfish sting with serious hand complications. Injury 12, 66, 1980.
- 1719 DUBOIS, J.-M. and COHEN, J.B. Effect of palytoxin on membrane and potential and current of frog myelinated fibers. J. Pharmacol. exp. Ther. 201, 148, 1977.
- 1720 DUJARRIC, R. De la rivièrre. Sur l'existence d'une méduse congestive. C.R. Soc. Biol. 78, 596, 1915.
- 1721 DYMSZA, H., SHIMIZU, Y., RUSSELL, F.E. and GRAHAM, H.D. Poisonous marine animals. In, The Safety of Foods. 2nd edit., Graham, H.D. (ed.), Avi Publ.: Westport, Conn., p. 625, 1980.

- 722 EIMER, T. Nesselzellen und Samen bei Seeschwämmen. Arch. mikrosk. Anat. 8, 281, 1872.
- 1723 ENDEAN, R. Venomous marine animals. Aust. Territories 5, 31, 1965.
- 1724 ENDEAN, R. Australian scientists study sea wasp, a deadly jellyfish. Hosp. Trib. 2, 16, 1968.
- 1725 ENDEAN, R. Neurotoxins occurring in marine animals from Australian waters. In, Neurotoxins. Fundamental and Clinical Advances. Chubb, I.W. and Geffen, L.B. (eds.), Adelaide Univ. Union Press, Adelaide, S. Australia, p. 57, 1979.
- 1726 ENDEAN, R. and BARNES, J.H. Rabbits may turn tide against sea wasp. Cairns Queensland J. Post, Sept. 28, 1966.
- 1727 ENDEAN, R. and HENDERSON, L. Further studies of toxic material from nematocysts of the cubomedusan Chironex fleckeri Southcott. Toxicon 7, 303, 1969.
- 1728 ENDEAN, R. and HENDERSON, L. Some aspects of the biological activity of crude nematocyst toxin from Chironex fleckeri. In, Bioactive Compounds from the Sea. Humm, H.J. and Lane, C.E. (eds.), Dekker, N.Y., vol. 1, p. 1, 1974.
- 1729 ENDEAN, R. and NOBLE, M. Toxic material from the tentacles of the cubomedusan Chironex fleckeri. Toxicon 9, 255, 1971.
- 1730 ENDEAN, R. and RIFKIN, J. Isolation of the different types of nematocyst from the cubomedusan Chironex fleckeri. Toxicon 13, 375, 1975.
- 1731 ENDEAN, R., DUCHEMIN, C., MC COLM, D. and FRASER, E.H. A study of the biological activity of toxic material derived from nematocysts of the cubomedusan Chironex fleckeri. Toxicon 6, 179, 1969.
- 1732 ERMAN, A. and NEEMAN, I. Inhibition of phosphofructokinase by the toxic cembranolid sarco-phine isolated from the soft-bodied coral Sarcophyton glaucum. Toxicon 15, 207, 1977.
- 1733 ERSPAMER, V. Occurrence and distribution of 5-hydroxytryptamine (Enteramine) in the living organism. Z. Vitamin-Hormon-fermentforsch. 9 (1-2), 74, 1957-58.
- 1734 ERSPAMER, V. Recent research in the field of 5-hydroxytryptamine and related indolealkylamines. In, Fortschritte der Arzneimittelforschung/Progress in Drug Research. Jucker, E. (ed.), Interscience, N.Y., vol. 3, p. 151, 1961.
- 1735 ESSEX, H.E. Certain animal venoms and their physiologic action. Physiol. Rev. 25, 148, 1945.
- 1736 EWALD, A. Über Bau, Entladung und Entwicklung der Nesselkapseln von Hydra und Porpita mediterranea. Verhandl. Naturhist.-med. Ver., Heidelberg, Neue Folge, 13, 1916.
- 1737 EWER, R.P. On the functions and mode of action of the nematocysts of Hydra. Proc. zool. Soc., London 117, 365, 1947.
- 1738 FARBER, L. and LERKE, P.A. Preliminary observations on the toxic property of the sea anemone, Rhodactis howesii. Tenth Pac. Sci. Congr. Honolulu, p. 877, 1961.
- 1739 FARBER, L. and LERKE, P. Studies on the toxicity of Rhodactis

- howesii (Matamalu). In, Venomous and Poisonous Animals and Noxious Plants of the Pacific Region. Keegan, H.L. and MacFarland, W.V. (eds.), Pergamon: Oxford, p. 67, 1963.
- 1740 FAURÉ-FREMIET, E. Sur les "nématocytes" de Polykrikos et de Campanella. C.R. Soc. Biol. 75, 366, 1913.
- 1741 FAUST, E.S. Coelenterata (zoophyta) Pflanzentiere. In, Die tierschen Gifte. Monograph. Wiss. Samm. Natur. Math. F. Vieweg Sohn: Braunschweig, vol. 9, p. 231, 1906.
- 1742 FELDBERG, W. and SCHILF, E. Histamin: seine Pharmakologie und Bedeutung für die Humoralphysiologie. Julius Springer: Berlin, 372p., 1930.
- 1743 FERLAN, I. Biochemical and biological characteristics of equinatoxin isolated from Actinia equina. Ph.D. Thesis, Univ. Ljubljana, 1977.
- 1744 FERLAN, I. and LEBEZ, D. Purification and some toxic properties of a toxic protein from Actinia equina. In, Tier-und Pflanzengifte/-Animal and Plant Toxins. Kaiser, E. (ed.), Wilhelm Goldmann: Munich, p. 19, 1973.
- 1745 FERLAN, I. and LEBEZ, D. Equinatoxin, a lethal protein from Actinia equina-I. Purification and characterization. Toxicon 12, 57, 1974.
- 1746 FERLAN, I. and LEBEZ, D. Hemolytic properties of equinatoxin. IX Cong. Yugoslav Soc. Physiol., Portorož, 1975 (Abst.).
- 1747 FERLAN, I. and LEBEZ, D. Preliminary studies on the structure of equinatoxin. Bull. Inst. Pasteur 74, 121, 1976.
- 1748 FISH, C.J. and COBB, M.C. Noxious marine animals of the central and western Pacific Ocean. U.S. Fish Wildl. Serv. Res. Rept. (36), 1954.
- 1749 FISHER, A.A. and ORRIS, W.L. Aquatic contact dermatitis. Cutis 12, 687, 1973.
- 1750 FISHER, A.A. Atlas of Aquatic Dermatology. Grune & Stratton: N.Y., 112p., 1978.
- 1751 FLECKER, H. Injuries by unknown agents to bathers in North Queensland. Med. J. Aust. (1), 98, 1945.
- 1752 FLECKER, H. Injuries by unknown agents to bathers in North Queensland. Med. J. Aust. (2), 128, 1945.
- 1753 FLECKER, H. Fatal stings to North Queensland bathers. Med. J. Aust. (1), 35, 1952.
- 1754 FLECKER, H. Fatal stings to North Queensland bathers. Med. J. Aust. (1), 458, 1952.
- 1755 FLECKER, H. Irukandji sting to North Queensland bathers without production of wheals but with severe general symptoms. Med. J. Aust. (2), 89, 1952.
- 1756 FLECKER, H. Further notes on Irukandji stings. Med. J. Aust. (1), 9, 1957.
- 1757 FLEIG, C. and DE ROUVILLE, E. Origine intraglandulaire des produits toxiques des céphalopodes pour les crustacés. Toxicité comparée du sang des extraits de glandes salivaires et d'extraits de foie des céphalopodes. C.R. Soc. Biol. 69, 502, 1910.
- 1758 FLOREY, E. An Introduction to General and Comparative Animal

- Physiology. W.B. Saunders: Philadelphia, p. 567, 1966.
- 1759 FONTAINE, A.R. The integumentary mucous secretions of the ophiuroid Ophiocomina nigra. J. mar. Biol. Assoc. U.K. 44, 145, 1964.
- 1760 FRACHTMAN, H.J. and MC COLLUM, W.T. Portuguese man-of-war stings; a case report. Am. J. trop. Med. 25, 499, 1945.
- 1761 FREEMAN, S.E. Actions of Chironex fleckeri toxins on cardiac transmembrane potentials. Toxicon 12, 395, 1974.
- 1762 FREEMAN, S.E. Marine toxins and excitable membranes. In, Neurotoxins. Fundamental and Clinical Advances. Chubb, I.W. and Gelfen, L.B. (eds.), Adelaide Univ. Union Press: Adelaide, S. Australia, p. 121, 1979.
- 1763 FREEMAN, S.E. and TURNER, R.J. A pharmacological study of the toxin of a cnidarian, Chironex fleckeri Southcott. Br. J. Pharmacol. 33, 510, 1969.
- 1764 FREEMAN, S.E. and TURNER, R.J. Effects of Chironex fleckeri toxin on the isolated perfused guinea pig heart. Toxicon 7, 277, 1969.
- 1765 FREEMAN, S.E. and TURNER, R.J. Cardiovascular effects of toxins isolated from the cnidarian Chironex fleckeri Southcott. Br. J. Pharmacol. 41, 154, 1971.
- 1766 FREEMAN, S.E. and TURNER, R.J. Cardiovascular effects of cnidarian toxins: a comparison of toxins extracted from Chiropsalmus quadrigatus and Chironex fleckeri. Toxicon 10, 31, 1972.
- 1767 FRITZ, H., BREY, B. and BÉRESS, L. Polyvalente Isoinhibitoren für Trypsin, Chymotrypsin, Plasmin und Kallikreine aus Seeanemonen (Anemonia sulcata). Isolierung, Hemmverhalten und Aminosäurezusammensetzung. Hoppe-Seyler's Z. physiol. Chem. 353, 19, 1972.
- 1768 FRITZ, H., TSCHESCHE, H., GREENE, L.J. and TRUSCHEIT, E., editors. Proteinase Inhibitors. (Proc. 2nd Intern. Conf., Bayer Symp. V), Springer: Heidelberg, 1974.
- 1769 FROHMAN, I.G. Treatment of Physalia stings. J.A.M.A. 197, 733, 1966.
- 1770 FROHMAN, I.G. Portuguese man-of-war stings. In, Current Therapy. Conn, H.E. (ed.), W.B. Saunders: Philadelphia, p. 835, 1968.
- 1771 FUKUI, Y. and WADA, T. Physiological mechanism of nematocyst responses in sea-anemone. VI. A note on the microscopical structure of acontium, with special reference to the situation of cnidae within its surface. Cytologia 24, 81, 1959.
- 1772 GARCIA-CASTINEIRAS, S., WHITE, J.I. and TORO-COYCO, E. Isolation and preliminary characterization of a NaKATPase inhibitor from the toxic coelenterate Palythoa. Fed. Proc. 34, 505, 1975.
- 1773 GARNET, J.R. Venomous Australian Animals Dangerous to Man. Commonwealth Serum Laboratories: Parkville, Australia, 86p., 1968.
- 1774 GARRIOTT, J.C. and LANE, C.E. Some autonomic effects of Physalia toxin. Toxicon 6, 281, 1969.
- 1775 GEGENBAUR, C. Beiträge zur näheren Kenntniss der Schwimmpolypen (Siphonophoren). Z. wiss. Zool. 5, 225, 1853.
- 1776 GEGENBAUR, C. Ueber einige niedrige Seethiere. Z. wiss. Zool. 5, 103, 1853.

- 1777 GESSNER, O. Tierische Gifte. Handbuch der experimentellen Pharmakologie. Julius Springer: Berlin, vol. 6, p. 61, 81, 1938.
- 1778 GILLET, K. and MC NEILL, F. The Great Barrier Reef and Adjacent Isles. Coral Reef Press: Sydney, 209p., 1962.
- 1779 GIRALDI, T., FERLAN, I. and ROMEO, D. Anti-tumor activity of equinatoxin. Chem. Biol. Inter ct. 13, 199, 1976.
- 1780 GLASER, O.C. and SPARROW, C.M. The physiology of nematocysts. J. exp. Zool. 6, 361, 1909.
- 1781 GOLDNER, R. and BURNETT, J.W. Observations on the pathogenesis of lethal sea nettle stings. Clin. Res. 18, 348, 1970; see also Fed. Proc. 29, 317, 1970 (Abst.).
- 1782 GOLDNER, R., BURNETT, J.W., STONE, J.S. and DILAIMY, M.S. The chemical composition of sea nettle nematocysts. Proc. Soc. exp. Biol. 131, 1386, 1969; see also Fed. Proc. 28, 77, 1969 (Abst.).
- 1783 GOULD, W.M. and BURNETT, J.W. Effects of Chrysaora quinquecirrha (sea nettle) toxin on sodium transport across frog skin. J. invest. Derm. 57, 266, 1971.
- 1784 GROTONDORST, C. Studies on the hemolytic toxins from sea anemone nematocyst venom. Dissertation, Univ. S. Florida, 1979.
- 1785 GUY, H.R. On the structures of the scorpion and sea-anemone toxins and the sodium channel. Biophys. J. 25, 299A, 1979.
- 1786 HABERMANN, E. and BÉRESS, L. Iodine labelling of sea anemone toxin II, and binding to normal and denervated diaphragm. N.-S. Arch. exp. Path. Pharmac. 309, 165, 1979.
- 1787 HABERMEHL, G. Gift-Tiere und ihre Waffen. Springer-Verlag: Berlin, 1976.
- 1788 HABERMEHL, G.G. and KREBS, H.C. Comparative biochemical studies on sea anemones (Anemonia sulcata, Metridium senile). Toxicon 16, 421, 1978 (Abst.).
- 1789 HADLEY, H.G. Sea nettle or jellyfish (and their stings). Med. Ann., Dist. Columbia 10, 178, 1941.
- 1790 HALSTEAD, B.W. Animal phyla known to contain poisonous marine animals. In, Venoms. Buckley, E.E. and Forges, N. (eds.), A.A.A.S.: Washington, p. 9, 1956.
- 1791 HALSTEAD, B.W. Jellyfish stings and their medical management. U.S. Armed Forces med. J. 8, 1387, 1957.
- 1792 HALSTEAD, B.W. Dangerous Marine Animals. Cornell Maritime Press: Cambridge, p. 32, 1959.
- 1793 HALSTEAD, B.W. Poisonous and Venomous Marine Animals of the World, Vol. I, Invertebrates. U.S. Govt. Print. Off.: Washington, p. 297, 1965.
- 1794 HALSTEAD, B.W. Venomous marine animals of Brazil. Mem. Inst. Butantan Simp. Internac. 33, 1, 1966 (publ. 1968).
- 1795 HALSTEAD, B.W. Venomous coelenterates: hydroids, jellyfishes, corals, and sea anemones. In, Venomous Animals and Their Venoms. Bucher, W. and Buckley, E.E. (eds.), Academic: N.Y., vol. 3, p. 395, 1971.
- 1796 HALSTEAD, B.W. Portuguese man-of-war jellyfish stings. In, Current Therapy. Conn, H.F. (ed.), W.B. Saunders: Philadelphia, vol. 29, 1977.

- 1797 HALSTEAD, B.W. Poisonous and Venomous Marine Animals of the World. Rev. edit., Darwin Press: Princeton, N.J., 238p., 1978.
- 1798 HALSTEAD, B.W. and DANIELSON, D.D. Death from the depths. Oceans 3, 14, 1970.
- 1799 HALSTEAD, B.W. and RUSSELL, F.E. Toxic marine organisms. In, Handbook of Biological Data. Spector, W.S. (ed.), F.A.S.E.B.: Washington, p. 424, 1956.
- 1800 HALSTEAD, B.W., CARSCALLEN, L.J. and RUSSELL, F.E. Animal toxins. Part III. Marine organisms. In, Biology Data Book. Altman, P.L. and Dittmer, D.S. (eds.), F.A.S.E.B.: Washington, p. 336, 1964.
- 1801 HAMILTON, R.J., VAN DEN HEUVEL, W.J.A. and HORNING, E.C. The isolation and characterization of cholesterol in Portuguese man-of-war (Physalia). Experientia 20, 563, 1964.
- 1802 HAMON, M. Recherches histochimiques sur les nematocystes de coelentérés. Bull. Soc. Hist. nat. Afrique Nord. 46, 169, 1955.
- 1803 HAMON, M. Cytochemical research on coelenterate nematocysts. Nature 176, 357, 1955.
- 1804 HAND, C. Present state of nematocyst research: types, structure and function. In, The Biology of Hydra and of Some Other Coelenterates. Lenhoff, H.M. and Loomis, W.F. (eds.), Univ. Miami Press: Coral Gables, Fla., p. 187, 1961.
- 1805 HANSEN, P.A. and HALSTEAD, B.W. The venomous sea anemone Actinodendron plumosum Haddon of South Vietnam. Micronesica 7, 123, 1971.
- 1806 HANSEN, T.J. Fatal cases of box jelly-fish stings. Proc. First Intern. Convention Life Saving Techniques, Part III, Sci. Sect., Bull. Post Grad. Comm. Med., Univ. Sydney, Australia, p. 113, 1963.
- 1807 HANSEN, T.J. Sea-wasp syndrome or acute nematocyst poisoning. Proc. First Intern. Convention Life Saving Techniques, Part III, Sci. Sect., Bull. Post Grad. Comm. Med., Univ. Sydney, Australia, p. 66, 1963.
- 1808 HARTMAN, K.R., CALTON, G.J. and BURNETT, J.W. A kinin-like protein in jellyfish toxin. Clin. Res. 26, 570, 1978; see also J. invest. Derm. 70, 214, 1978.
- 1809 HARTMAN, K.R., CALTON, G.J. and BURNETT, J.W. Reactions to jellyfish stings—toxic or allergic. J. invest. Derm. 73, 311, 1979.
- 1810 HARTMAN, K.R., CALTON, G.J. and BURNETT, J.W. The utilization of the bradykinin radio-immunoassay for the study of a kinin-like factor in jellyfish toxin. Comp. biochem. Physiol. 66C, 163, 1980.
- 1811 HARTMAN, K.R., CALTON, G.J. and BURNETT, J.W. Use of the radio-allergosorbent test for the study of coelenterate toxin-specific Immunoglobulin E. Intern. Arch. Allergy appl. Immunol. 61, 389, 1980.
- 1812 HARTWICK, R., CALLAHAN, V. and WILLIAMSON, J. Disarming the box-jellyfish. Nematocyst inhibition in Chironex fleckeri. Med. J. Aust. (1), 15, 1980.
- 1813 HASHIMOTO, Y. Behavioral responses of marine animals to chemical stimuli. Bull. Jpn. Soc. scient. Fish. 33, 243, 1967.
- 1814 HASHIMOTO, Y. [Marine Toxins]. Univ. Tokyo Press: Tokyo, 1977.

- 1815 HASHIMOTO, Y. Marine Toxins and Other Bioactive Metabolites. Jpn. Sci. Soc.: Tokyo, 369p., 1979.
- 1816 HASHIMOTO, Y. and ASHIDA, K. Screening of toxic corals and isolation of a toxic polypeptide from Goniopora spp. Publ. Seto mar. Biol. Lab. 20, 703, 1973.
- 1817 HASHIMOTO, Y., FUSEYANI, N. and KIMURA, S. Aluterin: a toxin of filefish, Alutera scripta, probably originating from a zoantharian, Palythoa tuberculosa. Bull. Jpn. Soc. scient. Fish. 35, 1086, 1969.
- 1818 HASTINGS, S.G., LARSEN, J.B. and LANE, C.E. Effects of nematocyst toxin of Physalia physalis (Portuguese man-of-war) on the canine cardiovascular system. Fed. Proc. 26, 321, 1967; see also Proc. Soc. exp. Biol. 125, 41, 1967.
- 1819 HEDGPETH, J.W. Re-examination of the adventure of the lion's mane. Sci. Month. 60, 227, 1945.
- 1820 HEFTMANN, E. and HAYDEN, A.L. Paper chromatography of steroid sapogenins and their acetates. J. biol. Chem. 197, 47, 1952.
- 1821 HENDERSON, D. and EASTON, R.G. Stingose. A new and effective treatment for bites and stings. Med. J. Aust. (2), 146, 1980.
- 1822 HENRI, V. and KAYALOF, E. Étude des toxines contenues dans les pedicellaires chez les Oursins. C.R. Soc. Biol. 60, 884, 1906.
- 1823 HERCUS, J. An unusual eye condition. Med. J. Aust. (1), 98, 1944.
- 1824 HESSINGER, D.A. and GROVE, R.I. Antibodies to sea anemone nematocyst venom—II. Neutralization of the hemolytic, phospholipase A₂ and lethal activities by purified antibodies produced in response to attenuated venom. Toxicon 17, 109, 1979.
- 1825 HESSINGER, D.A. and LENHOFF, H.M. Assay and properties of the hemolysis activity of pure venom from the nematocyst of the acontia of the sea anemone Aiptasia pallida. Arch. Biochem. Biophys. 159, 629, 1973.
- 1826 HESSINGER, D.A. and LENHOFF, H.M. Binding of active and inactive hemolytic factor of sea anemone nematocyst venom to red blood cells. Biochem. biophys. res. Commun. 53, 475, 1973.
- 1827 HESSINGER, D.A. and LENHOFF, H.M. Degradation of red cell membrane phospholipids by sea anemone nematocyst venom. Toxicon 12, 379, 1974.
- 1828 HESSINGER, D.A. and LENHOFF, H.M. Kinetics of prolytic events during red cell lysis induced by sea anemone nematocyst venom. Comp. Biochem. Physiol. 49B, 139, 1974.
- 1829 HESSINGER, D.A. and LENHOFF, H.M. Membrane structure and function. Mechanism of hemolysis induced by nematocyst venom: roles of phospholipase A and direct lytic factor. Arch. Biochem. Biophys. 173, 603, 1976.
- 1830 HESSINGER, D.A. and SORRENTINO, J. Binding of phospholipids by the hemolytic toxin from the nematocyst venom of the Portuguese man-of-war. Fed. Proc. 38, 254, 1979 (Abst.).
- 1831 HESSINGER, D.A., LENHOFF, H.M. and KAHAN, L.B. Haemolytic, phospholipase A and nerve-affecting activities of sea anemone nematocyst venom. Nature (New Biol.) 241, 125, 1973.

- 1832 HICKS, A. Coral ulcer. E. Afr. med. J. 34, 121, 1957.
- 1833 HINES, K. and LANE, C.E. Amino acid composition of active peptides of Physalia toxin. Fed. Proc. 21, 35, 1962.
- 1834 HIRASE, S. et al. Illustrated Japanese Zoological Dictionary. Hokuryukwan & Co. Ltd.: Tokyo, 1927.
- 1835 HIRATA, Y., UEMURA, D., UEDA, K. and TAKANO, S. Several compounds from Palythoa tuberculosa (Coelenterata). Pure appl. Chem. 51, 1875, 1979.
- 1836 HÖGBERG, B., THUFVESSON, G. and UVNÄS, B. Histamine liberation produced in the perfused paw of the cat by 48/80 and extracts from jellyfish (Cyanea capillata) and eelworm (Ascaris lumbricoides) from swine. Acta physiol. Scand. 38, 135, 1956.
- 1837 HÖGBERG, B., SUDOW, G., THON, I. and UVNÄS, B. The inhibitory action of a compound obtained from hip seeds (HSC) on the release of histamine and the disruption of mast cells produced by compound 48/80 and extracts from jellyfish (Cyanea capillata) and eelworm of swine (Ascaris lumbricoides). Acta physiol. Scand. 38, 263, 1957.
- 1838 HORST, M.D. Dermatitis toxica door Benang Benang. Geneesk. Tijdschr. Ned.-Ind. 53, 605, 1913.
- 1839 HOVASSE, R. Tichocystes, corps trichocystoides, cnidocystes et collobalastes. In, Protoplasmatologia. Sater, P. and Hovasse, R. (eds.), Springer-Verlag: N.Y., p. 1, 1965.
- 1840 HUANG, C.L. and MIR, G.N. Toxicological and pharmacological studies on sea anemone, Calliactis polypus (Homathiidae). J. pharm. Sci. 61, 66, 1972.
- 1841 HUCHO, F., STENGELIN, S., RATHMAYER, W. and BÉRESS, L. Neurotoxins ATX I and ATX II: radioactive labeling and binding to axonal membranes. Hoppe-Seyler's Z. physiol. chem. 359, 278, 1978.
- 1842 HULET, W.H., BELLEME, H.L., MERSIT, G. and LANE, C.E. Ultrastructure of Physalia nematocysts. In, Bioactive Compounds from the Sea. Humm, H.J. and Lane, C.E. (eds.), Marcel Dekker: N.Y., p. 99, 1974.
- 1843 IOANNIDES, G. and DAVIS, J.H. Portuguese man-of-war stinging. Arch. Derm. Syph. 91, 448, 1965.
- 1844 ISHIKAWA, Y., ONODERA, K. and TAKEUCHI, A. Purification and effect of the neurotoxin from the sea anemone Parasicyonis actinostoloides. J. Neurochem. 33, 69, 1979.
- 1845 IWANZOFF, N. Über den Bau, die Wirkungsweise und die Entwicklung der Nesselkapseln der Coelenteraten. Bull. Soc. Nat. Moscou 10, 95, 1896; 10 323, 1896.
- 1846 JACOBSON, A. Die Nesselzellen. Thesis, Berlin, 1912.
- 1847 JACOBY, M. Über die Empfindlichkeit und das Rezeptionsvermögen der Zellen bei normalen und immunisierten Tieren. Beitr. Chem. Physiol. 6, 113, 1905.
- 1848 JACQUES, R. and SCHACHTER, M. A sea anemone extract (thalassine) which liberates histamine and a slow contracting substance. Br. J. Pharmac. Chemother. 9, 49, 1954.

- 1849 JACQUES, Y., FOSSET, M. and LAZDUNSKI, M. Molecular properties of the action potential Na⁺ ionophore in neuroblastoma cells. Interactions with neurotoxins. J. biol. Chem. 253, 7383, 1978.
- 1850 JENNINGS, R.K. Basic biochemistry to serve the navy. Naval Res. Rev. 20, 32, 1967.
- 1851 JOHNSON, M.Y. and SNOOK, H.J. Seashore Animals of the Pacific Coast. Macmillan: N.Y., 650p., 1927.
- 1852 JOHNSTON, D.G. and BURGER, W.D. Injury and disease of scuba and skin divers. Postgrad. Med. 49, 134, 1971.
- 1853 KAISER, E. and MICHL, H. Die Biochemie der tierischen Gifte. F. Deuticke: Wien, p. 4, 1958.
- 1854 KAPLAN, A.P. Mediators present in the nematocyst venoms of the sea nettle, sea wasp and Portuguese man-o'-war. Comp. Biochem. Physiol. 51, 153, 1975.
- 1855 KATO, Y. and SCHEUER, P.J. The aplysiatoxins. Pure appl. Chem. 41, 1, 1975.
- 1856 KAUL, P.N. and CIERESZKO, L.S. Palytoxin—the most potent marine toxin. Fed. Proc. 33, 247, 1974.
- 1857 KAUL, P.N. and SINDERMAN, C.J., editors. Drugs and Food from the Sea. Myth or Reality? Univ. Okla. Press: Norman, Okla., 1978.
- 1858 KAUL, P.N., KULKARNI, S.K., WEINHEIMER, A.J., SCHMITZ, F.J. and KARNS, T.K.B. Pharmacologically active substances from the sea-II. Various cardiovascular activities found in the extracts of marine organisms. Lloydia 40, 253, 1977.
- 1859 KAWAGUTI, S. Stinging reef corals; nine notes on reef corals, note 5. Kagaku Nanyo, Japan 2, 3, 1940.
- 1860 KEEGAN, H.L., WEAVER, R.E., TOSHIOKA, S. and MATSUI, T. Some venomous and noxious animals of East and Southeast Asia. 406th Med. Lab. Spec. Rept., U.S. Army Med. Command, Japan, p. 3, 1964.
- 1861 KEEN, T.E.B. Recent investigations on sea-wasp stings in Australia. Med. J. Aust. (1), 266, 1970.
- 1862 KEEN, T.E.B. Comparison of tentacle extracts from Chiropsalmus quadrigatus and Chironex fleckeri. Toxicon 9, 249, 1971.
- 1863 KEEN, T.E.B. Surface properties of the hemolytic fraction derived from tentacle extracts of Chironex fleckeri. Toxicon 10, 587, 1972.
- 1864 KEEN, T.E.B. Interaction of the hemolysin of Chironex fleckeri tentacle extracts with lipid monolayers. Toxicon 11, 293, 1973.
- 1865 KEEN, T.E.B. and CRONE, H.D. The hemolytic properties of extracts of tentacles from the cnidarian Chironex fleckeri. Toxicon 7, 55, 1969.
- 1866 KEEN, T.E.B. and CRONE, H.D. Dermatonecrotic properties of extracts from the tentacles of the cnidarian Chironex fleckeri. Toxicon 7, 173, 1969.
- 1867 KELLAWAY, C.H. The action of mussel poison on the nervous system. Aust. J. exp. biol. med. Sci. 13, 79, 1935.

- 1868 KEM, W.R. and BLUMENTHAL, K.M. Cytotoxins of some marine invertebrates. Toxicon 17 (Suppl. 1), 86, 1979 (Abst.).
- 1869 KEM, W.R., BLUMENTHAL, K.M. and DOYLE, J.W. Cytotoxins of some marine invertebrates. In, Natural Toxins. Eaker, D. and Wadstrom, T. (eds.), Pergamon: N.Y., p. 157, 1980.
- 1870 KEPNER, W.A., REYNOLDS, B.D., GOLDSTEIN, L. and TAYLOR, J.H. The structure, development and discharge of the penetrant of Pelmatohydra oligactis (Pall.). J. Morph. 72, 561, 1943.
- 1871 KEPNER, W.A., REYNOLDS, B.D., GOLDSTEIN, L. et al. The discharge of nematocysts of Hydra, with special reference to the penetrant. J. Morph. 88, 23, 1951.
- 1872 KIMURA, S. and HASHIMOTO, Y. Purification of the toxin in a zoanthid Palythoa tuberculosa. Publ. Seto mar. Biol. Lab. 20, 713, 1973.
- 1873 KIMURA, S., HASHIMOTO, Y. and YAMAZATO, K. Toxicity of the zoanthid Palythoa tuberculosa. Toxicon 10, 611, 1972.
- 1874 KINGSTON, C.W. Slides of the skin in fatal case of box jelly-fish sting. Proc. First Intern. Convention Life Saving Techniques, Part III, Sci. Sect., Bull. Post Grad. Comm. Med., Univ. Sydney, Australia, p. 111, 1963.
- 1875 KINGSTON, C.W. and SOUTHCOTT, R.V. Skin histopathology in fatal jellyfish stinging. Trans. Roy. Soc. trop. Med. Hyg. 54, 373, 1960.
- 1876 KITAGAWA, K. A case of dermatitis probably due to poison from eating jelly-fish. Acta Derm. Kyoto 41, 266, 1943.
- 1877 KLAUS, G. Pharmaceuticals from the oceans. Drug Cosmetic Ind. 103, 48, 1968.
- 1878 KLEIN, W.E. and BRADSHAW, R.H. Portuguese man-of-war sting. U.S. Armed Forces med. J. 2, 509, 1951.
- 1879 KLEINHAUS, A.L., CRANFIELD, P.F. and BURNETT, J.W. The effects on canine cardiac Purkinje fibers of Chrysaora quinquecirrha (sea nettle) toxin. Toxicon 11, 341, 1973.
- 1880 KLINE, E.S. Chemistry of nematocyst capsule and toxin of Hydra littoralis. In, The Biology of Hydra and of Some Other Coelenterates. Lenhoff, H.M. and Loomis, W.F. (eds.), Univ. Miami Press: Coral Gables, Fla., p. 153, 1961.
- 1881 KLINE, E.S. and WARVDEKAR, V.S. Inhibitor of succinoxidase activity from Hydra littoralis. J. biol. Chem. 235, 1803, 1960.
- 1882 KOMAI, T. On Stephanoscyphus and Nausithoe. Mem. Coll. Sci., Kyoto 10, 289, 1935.
- 1883 KOPSTEIN, P.F. Die giftigen Tiere von Niederländisch-Ost-Indien. Natuur. Tijdschr. Ned.-Indie 86, 123, 1926.
- 1884 KORNALIK, F. [Animal Toxins.] State Public Health: Prague, 288p., 1967.
- 1885 KRAMP, P.L. Hydromedusae. Sci. Rep. Great Barrier Reef Exp. 6, 259, 1953.
- 1886 KRAMP, P.L. The hydromedusae of the Atlantic Ocean and adjacent waters. Carlsberg Found., Dana Rept. (46), 283p., 1959.

- 1887 KRAMP, P.L. Synopsis of the medusae of the world. J. mar. Biol. Assoc. U.K. 40, 469, 1961.
- 1888 KRAMP, P.L. Some medusae (mainly Scyphomedusae) from Australian coastal waters. Trans. Roy. Soc. Aust. 89, 257, 1963.
- 1889 KRISTENSON, A. Some observations concerning the pathophysiological effects on the human skin caused by the stinging jellyfish Cyanea capillata. Acta physiol. Scand. 18, 131, 1949.
- 1890 LAIGRET, J. and BAGNIS, R. Traumatismes, envenimations et intoxication alimentaires causées par les animaux aquatiques. In, Encyclopedie Medicochirurgicale. Begon, C. (ed.), Editions Techniques: Paris, vol. 2, p. 1, 1969.
- 1891 LAKSO, J.D. A study of the variability in toxicity of extracts made from the coelenterate Anthopleura elegantissima (Brandt). Thesis, Sacramento State College, 1965.
- 1892 LANE, C.E. The toxin of Physalia nematocysts. Ann. N.Y. Acad. Sci. 90, 742, 1960.
- 1893 LANE, C.E. The Portuguese man-of-war. Scient. Am. 202, 158, 1960.
- 1894 LANE, C.E. Physalia nematocysts and their toxin. In, Biology of Hydra. Lenhoff, H.M. and Loomis, W.F. (eds.), Univ. Miami Press: Coral Gables, Florida, p. 169, 1961.
- 1895 LANE, C.E. Observations on general biology of Physalia. Am. Zool. 1, 49, 1961.
- 1896 LANE, C.E. Deadly fisher. Natn. Geogr. Mag. 123, 388, 1963.
- 1897 LANE, C.E. Recent observations on the pharmacology of Physalia toxin. In, Animal Toxins. Russell, F.E. and Saunders, P.R. (eds.), Pergamon: Oxford, p. 131, 1967; see also Toxicon 4, 297, 1967 (Abst.).
- 1898 LANE, C.E. Pharmacologic action of Physalia toxin. Fed. Proc. 26, 1223, 1967.
- 1899 LANE, C.E. Toxins of marine origin. Ann. Rev. Pharmacol. 8, 409, 1968.
- 1900 LANE, C.E. Coelenterata: chemical aspects of ecology, pharmacology and toxicology. In, Chemical Zoology. Florkin, M. and Scheer, B.T. (eds.), Academic: N.Y., 1968.
- 1901 LANE, C.E. Nematocyst toxins of coelenterates. In, Bioactive Compounds from the Sea. Humm, H.J. and Lane, C.E. (eds.), Marcel Dekker: N.Y., p. 123, 1974.
- 1902 LANE, C.E. and DODGE, E. The toxicity of Physalia nematocysts. Biol. Bull. 113, 219, 1958.
- 1903 LANE, C.E. and LARSEN, J.B. Some effects of the toxin of Physalia physalis on the heart of the land crab, Cardisoma guanhumi (Latreille). Toxicon 3, 69, 1965.
- 1904 LANE, C.E. and WANGERSKY, E.D. Interaction between the plasma of the loggerhead turtle and toxin of the Portuguese man-of-war. Nature 185, 330, 1960.
- 1905 LANE, C.E., COURSEN, B.W. and HINES, K. Biologically active peptides in Physalia toxin. Proc. Soc. exp. Biol. 107, 670, 1961.
- 1906 LARSEN, J.B. Some effects of Physalia physalis toxin on active transport. Thesis, Univ. Miami, 1968.

- 1907 LARSEN, J.B. and LANE, C.E. Some effects of Physalia physalis toxin on the cardiovascular system of the rat. Toxicon 4, 199, 1966.
- 1908 LARSEN, J.B. and LANE, C.E. Direct action of Physalia toxin on frog nerve and muscle. Toxicon 8, 21, 1970.
- 1909 LARSEN, J.B. and LANE, C.E. Some effects of Physalia physalis toxin on active Na⁺ transport across frog skin. Comp. Biochem. Physiol. 34, 333, 1970.
- 1910 LARSEN, J.B. and PRICE, W.J. Some physiological effects of fractionated jellyfish toxin. 5th Intern. Symp. Animal, Plant, Microbial Toxins, San Jose, Costa Rica, p. 65, 1976 (Abst.); see also Toxins. Animal, Plant and Microbial. Rosenberg, P. (ed.), Pergamon: Oxford, p. 517, 1978.
- 1911 LAZDUNSKI, M., BALERNA, M., CHICHEPORTICHE, R. et al. Interaction of neurotoxins with the selectivity filter and the gating system of the sodium channel. In, Advances in Cytoparmacology. Ceccarelli, B. and Clementi, F. (eds.), Raven: N.Y., vol. 3, p. 353, 1979.
- 1912 LAZDUNSKI, M., BALERNA, M., CHICHEPORTICHE, R. et al. Marine neurotoxins to study the voltage-dependent sodium channel in excitable membranes. In, Neurotoxins, Fundamental and Clinical Advances. Chubb, I.W. and Geffen, L.B. (eds.), Adelaide Univ. Union Press: Adelaide, S. Australia, p. 111, 1979.
- 1913 LEBEZ, D., MAČEK, P. and SED-MACK, B. A comparison of some biochemical characteristics of coelenterate toxic proteins. Toxicon 17 (Suppl. 1), 99, 1979 (Abst.).
- 1914 LEITÃO, A.M. Temas de medicina de urgencia. Acidentes causados por animais peçonhentos. Arq. Brasil. med. 46, 441, 1956.
- 1915 LEMAIRE, R., CAMAIN, P., POSTEL, R., LEDUC, Y. and ERHARD, S. Les effets toxiques des extraits de Physalia pelagica. Bull. Soc. méd. Afrique Noire Langue Franc. 15, 1128, 1953.
- 1916 LENHOFF, H.M. Hydra. Science 134, 1989, 1961.
- 1917 LENHOFF, H.M. and LOOMIS, W.F., editors. The Biology of Hydra and of Some Other Coelenterates. Univ. Miami Press: Miami, Florida, 468p., 1961.
- 1918 LENHOFF, H.M., KLINE, E.S. and HURLEY, R. A hydroxyproline-rich, intracellular, collagen-like protein of Hydra nematocysts. Biochim. Biophys. Acta 26, 204, 1957.
- 1919 LENTZ, T.L. The Cell Biology of Hydra. North-Holland Publ. Co.: Amsterdam, 199p., 1966.
- 1920 LENTZ, T.L. and BARNETT, R.J. The effect of enzyme substrates and pharmacological agents on nematocyst discharge. J. exp. Zool. 149, 33, 1962.
- 1921 LESCHKE, E. Clinical Toxicology. W. Wood: Baltimore, 346p., 1934.
- 1922 LEVIN, O.L. and BEHRMAN, H.T. Coral dermatitis. Arch. Derm. Syph. (Chicago) 44, 600, 1941.
- 1923 LEVY, S., MASRY, D. and HALSTEAD, B.W. Report of stinging by the sea anemone Triactis producta Klunzinger from the Red Sea. Clin. Tox. 3, 637, 1971.

- 1924 LEWINSOHN, C. Injuries caused by marine animals. Dapim Refuim 21, 704, 1962.
- 1925 LIGHT, S.F. Another dangerous jellyfish in Philippine waters. Philipp. J. Sci. Ser. B 9, 291, 1914.
- 1926 LIGHT, S.F. Some Philippine Scyphomedusae, including two new genera, five new species, and one new variety. Philipp. J. Sci. Ser. D 9, 195, 1914.
- 1927 LIGHT, S.F. Further notes on Philippine scyphomedusan jellyfishes. Philipp. J. Sci. 18, 25, 1921.
- 1928 LILLEHEIL, G. and SHAPIRO, B.I. The mechanism of plateau formation by anemone toxin. Comp. Biochem. Physiol. 30, 281, 1969.
- 1929 LIN, D.C. and HESSINGER, D.A. Possible involvement of red cell membrane proteins in the hemolytic action of Portuguese man-of-war toxin. Biochem. Biophys. Res. Commun. 91, 761, 1979.
- 1930 LIN, D.C. and HESSINGER, D.A. Inhibitory action of red cell membrane proteins on the hemolytic action of Portuguese man-of-war venom. Fed. Proc. 39, 741, 1980.
- 1931 LINAWEAVER, P.G. Toxic marine life. Milit. Med. 132, 437, 1967.
- 1932 LIVINGSTONE, A.A. Sea anemones and their associates. Aust. Mus. Mag. 3, 232, 1928.
- 1933 LOCKWOOD. Fatal case of sting by box jellyfish. Proc. First Intern. Convention Life Saving Techniques, Part III, Sci. Sect., Bull. Post Grad. Comm. Med., Univ. Sydney, Australia, p. 110, 1963.
- 1934 LODER, J.S. Treatment of jellyfish stings. J.A.M.A. 226, 1228, 1973.
- 1935 LOJACONO, M. Sur le poison de la "Beroe" (Beroe forskalii M. Edw.—B. Ovata, Lam.). J. Physiol. Path. gen. 10, 1001, 1908.
- 1936 LORD, R.E. and WILKS, S.L. A case of jellyfish sting stimulating an acute abdomen. Lancet 2, 390, 1918.
- 1937 LOWRY, R.S. Sting of the Portuguese man-of-war. J.A.M.A. 56, 1213, 1911.
- 1938 LUBBOCK, R. Chemical recognition and nematocyte excitation in a sea anemone. J. exp. Biol. 83, 283, 1979.
- 1939 LUBBOCK, R. Why are clownfishes not stung by sea anemones? Proc. Roy. Soc. London B 207, 35, 1980.
- 1940 MACALLUM, A.B. On the inorganic composition of the medusae, Aurelia flavidula and Cyanea arctica. Am. J. Physiol. 29, 213, 1903.
- 1941 MACFARLANE, R.D., UEMURA, D. and HIRATA, Y. Cf plasma desorption mass spectrometry of palytoxin. J. Am. chem. Soc. 102, 875, 1980.
- 1942 MACHADO, O. Acidentes produzidos por medusas, caravelas e actinias. Biol. méd., Niterói 3, 155, 1946.
- 1943 MACKIE, G.O. Studies on Physalia physalis (L.). Part 2. Behavior and histology. Discovery Rep. 30, 371, 1960.
- 1944 MADUGA, M. Considerações sobre a hemocianina de um molusco gastrópodo e a sua ação tóxica. Bol. Vital. Brasil 5, 67, 1945.
- 1945 MAGUIRE, E.J. Chironex fleckeri ("sea wasp") sting. Aust. med. J. 2, 1137, 1968.

- 1946 MANSON-BAHR, P.H. Animal poisons. In, Manson's Tropical Diseases of Warm Climates. 13th edit., Williams & Wilkins: Baltimore, p. 842, 1950.
- 1947 MANSUETI, R. Symbiotic behavior between small fishes and jellyfishes, with new data on that between the stromateid, Peprilus alepidotus, and the scyphomedusa, Chrysaora quinquecirrha. Copeia (1), 40, 1963.
- 1948 MANUNTA, C. La resistenza dei paguri al veleno della attinie. Esperienze au "Paguristes oculatus" Fabr. con "Adamsia rondelleti" Andr. Thalassia (Venice) 5, 38, 1943.
- 1949 MARETIĆ, Z. [Dangers from marine animals.] More 6, 12, 1969.
- 1950 MARETIĆ, Z. [Dangerous and venomous animals of the Adriatic.] Pomorska biblioteka 22, 157, 1969.
- 1951 MARETIĆ, Z. [Venomous animals of the sea.] Pomorska zbornik 8, 923, 1970.
- 1952 MARETIĆ, Z. [Tourism and disease.] Libelli Medici 2, 1, 1971.
- 1953 MARETIĆ, Z. Verletzungen und Vergiftungen durch giftige Tiere. Ost. Arztezeitung 8, 457, 1972.
- 1954 MARETIĆ, Z. [Venomous Animals and Poisonous Animals of the Adriatic Sea.] J.A.Z.U.: Zagreb, Yugoslavia, 1975.
- 1955 MARETIĆ, Z., RUSSELL, F.E. and LADAVAC, J. Epidemic of stings by the jellyfish Pelagia noctiluca in the Adriatic. Toxicon 17 (Suppl. 1), 115, 1979 (Abst.); see also In, Natural Toxins. Eaker, D. and Wadström, T. (eds.), Pergamon: Oxford, p. 77, 1980.
- 1956 MARGOLIN, A.S. A running response of Armaea to sea stars. Ecology 45, 191, 1964.
- 1957 MARISCAL, R.N. Nematocysts. In, Coelenterate Biology. Muscatine, L. and Lenhoff, H.M. (eds.), Academic: N.Y., p. 129, 1974.
- 1958 MARISCAL, R.N. and BIGGER, C.H. A comparison of putative sensory receptors associated with nematocysts in an anthozoan and a scyphozoan. In, Coelenterate Ecology and Behavior. Mackie, G.O. (ed.), Plenum Publ.: N.Y., p. 559, 1976.
- 1959 MARISCAL, R.N., BIGGER, C.H. and MCLEAN, R.B. The form and function of cnidarian spirocytes. 1. Ultrastructure of the capsule exterior and relationship of the tentacle sensory surface. Cell Tiss. Res. 168, 465, 1978.
- 1960 MARR, A.G.M. and BAXTER, E.H. Effect of proteolytic enzymes on the venom of the sea wasp Chironex fleckeri. Toxicon 9, 431, 1971.
- 1961 MARR, A.G.M. and BAXTER, E.H. The low molecular weight of sea wasp (Chironex fleckeri) venom. Toxicon 12, 443, 1974.
- 1962 MARR, J.J. Portuguese man-of-war envenomization. A personal experience. J.A.M.A. 199, 337, 1967.
- 1963 MARTIN, E.J. Observations on the toxic sea anemone Rhodactis howesii (Coelenterata). Pac. Sci. 14, 403, 1960.
- 1964 MARTIN, E.J. Toxicity of dialyzed extracts of some California anemones (Coelenterata). Pac. Sci. 17, 302, 1963.
- 1965 MARTIN, E.J. Anticoagulant from the sea anemone Rhodactis

- howesii. Proc. Soc. exp. Biol. Med. 121, 1063, 1966.
- 1966 MARTIN, E.J. The macromolecular toxin of sea anemones (Coelenterata). In, Proceedings of the Galapagos International Science Project. Univ. Calif. Press: Berkeley, Calif., p. 136, 1966.
- 1967 MARTIN, E.J. Antitoxin against a coelenterate poison. Intern. Arch. Allergy appl. Immun. 32, 342, 1967; see also Proc. west. Pharmacol. Soc. 11, 128, 1968; see also Toxicon 3, 304, 1968 (Abst.).
- 1968 MARTIN, E.J. Specific antigens released into sea water by contracting anemones (Coelenterata). Comp. Biochem. Physiol. 25, 169, 1968.
- 1969 MARTIN, E.J. Preparative separation technique for macromolecules by filtration through solid agar gel. J. Chromat. 34, 537, 1968.
- 1970 MARTINEZ, G., KOPEYAN, C., SCHWEITZ, H. and LAZDUNSKI, M. Toxin III from Anemonia sulcata: primary structure. F.E.B.S. Lett. 84, 247, 1977.
- 1971 MATHIAS, A.P., ROSS, D.M. and SCHACHTER, M. Identification and distribution of 5-hydroxytryptamine in a sea anemone. Nature 180, 658, 1957.
- 1972 MATHIAS, A.P., ROSS, D.M. and SCHACHTER, M. The distribution of histamine, 5-hydroxytryptamine, tetramethylammonium, and other substances in coelenterates possessing nematocysts. J. Physiol. 142, 56, 1958.
- 1973 MATHIAS, A.P., ROSS, D.M. and SCHACHTER, M. The distribution of 5-hydroxytryptamine, tetramethylammonium, homarine, and other substances in sea anemones. J. Physiol. 151, 296, 1960.
- 1974 MATUSOW, R.J. Oral inflammatory response to a sting from a Portuguese man-of-war. J. Am. dent. Assoc. 100, 73, 1980.
- 1975 MAYER, A.G. Medusae of the World. 3 vol., Carnegie Inst.: Washington, 1910.
- 1976 MAYER, M.M. and MICHAELS, W.D. Cell damage by trans-membrane channels: comparison of attack by complement, lymphocytes, colicin k and sea anemone toxin. Fed. Proc. 38, 1468, 1979 (Abst.).
- 1977 MC DONNELL, R. Further observations on the power exercised by the Actiniae of our shores in killing their prey. Ann. Mag. nat. Hist. 3, 304, 1859.
- 1978 MC NALLY, W.D. Toxicology. In, Industrial Medicine and Surgery. Chicago, 1022p., 1937.
- 1979 MC NEIL, F.A. Injuries by unknown agents to bathers in North Queensland. Med. J. Aust. (2), 29, 1945.
- 1980 MC NEIL, F. Stinging coral and so-called stinging seaweed. Proc. First Intern. Convention Life Saving Techniques, Part III, Sci. Sect., Bull. Post Grad. Comm. Med., Univ. Sydney, Australia, p. 65, 1963.
- 1981 MC NEIL, F.A. Report of the sectional chairman. Proc. First Intern. Convention Life Saving Techniques, Part III, Sci. Sect., Bull. Post Grad. Comm. Med., Univ. Sydney, Australia, p. 129, 1963.
- 1982 MC NEIL, F.A. and POPE, E.C. A deadly poisonous jellyfish. Aust. Mus. Mag. 8, 127, 1943.

- 1983 MC NEIL, F.A. and POPE, E.C. A venomous medusa from Australian waters. Aust. J. Sci. 5, 188, 1943.
- 1984 MC NEIL, F.A. and POPE, E.C. Injuries by unknown agents to bathers in North Queensland. Med. J. Aust. (1), 334, 1945.
- 1985 MEBS, D. Chemistry of animal venoms, poisons and toxins. Experientia 29, 1328, 1973.
- 1986 MEBS, D. and GEBAUER, E. Isolation of proteinase inhibitor, toxic and hemolytic polypeptides from a sea anemone, Stoichactis sp. Toxicon 18, 97, 1980.
- 1987 MEBS, D., SIMON, B., GEMMER, H. and STILLE, W. Occurrence of shellfish poisoning in the Frankfurt area (West Germany). Period. Biol. 80 (Suppl. 1), 151, 1978.
- 1988 MEDICAL SCIENCES CLUB OF SOUTH AUSTRALIA. Lethal jellyfish stings: a study in "sea wasps." Med. J. Aust. (1), 443, 1959.
- 1989 MERCADO, A.R. Pharmacological and chemical studies of a toxin from Haliclona viridis. Dissertation, Univ. Miami, Florida, 1972.
- 1990 MICHAELS, W.D. Membrane damage by a toxin from the sea anemone Stoichactis helicanthus—I. Formation of transmembrane channels in lipid bilayers. Biochim. biophys. Acta 555, 67, 1979.
- 1991 MICHAELS, W.D., SHIN, M.L. and MAYER, M.M. Mechanism and lipid specificity of membrane damage by a toxin from sea anemone. Fed. Proc. 38, 1334, 1979 (Abst.).
- 1992 MICHAELV, P.V. (MIKHALEV). [A follow-up study of patients exposed to the sting of a toxic medusa (Gonionema).] Zh. Nevropatol. Psikhiatr. 70, 1850, 1970.
- 1993 MICHALEV, P.V. [On serious cases of toxicosis caused by medusa Gonionemus vertens vertens affection and proceeding in deep dullness.] Trans. Acad. Sci. Far East. Sci. Center, Inst. mar. Biol. U.S.S.R. 2, 53, 1974.
- 1994 MICHAELV, P.V. [Ament-delirious disorder of consciousness at poisoning by medusa Gonionemus vertens vertens.] Trans. Acad. Sci. Far East. Sci. Center, Inst. mar. Biol. U.S.S.R. 2, 59, 1974.
- 1995 MIDDLEBROOK, R.E., WITTLE, L.W., SCURA, E.D. and LANE, C.E. Isolation and purification of a toxin from Millepora dichotoma. Toxicon 9, 333, 1971.
- 1996 MIGAS, E.A. [The toxicity of medusa Gonionemus vertens vertens.] Trans. Acad. Sci. Far East. Sci. Center, Inst. mar. Biol. U.S.S.R. 2, 27, 1974.
- 1997 MIGAS, E.A. and POPOVA, N.A. [The effect of medusa Gonionemus vertens vertens extract on the exchange of serotonin and histamine.] Trans. Acad. Sci. Far East. Sci. Center, Inst. mar. Biol. U.S.S.R. 2, 39, 1974.
- 1998 MIGAS, E.A. and SIMONOVA, I.G. [On pharmacology of medusa Gonionemus vertens vertens extract.] Trans. Acad. Sci. Far East. Sci. Center, Inst. mar. Biol. U.S.S.R. 2, 34, 1974.
- 1999 MIGAS, E.A., SHMELEVA, A.I. and POPOVA, N.A. [Serotonin level in blood of the people affected by medusa Gonionemus vertens vertens.] Trans. Acad. Sci. Far East. Sci. Center, Inst. mar. Biol. U.S.S.R. 2, 43, 1974.

- 2000 MIKULITCH, L.V. and NAUMOV, D.V. [Venomous medusa Gonionemus vertens vertens, its taxonomy, morphology, life cycle, biology and distribution.] Trans. Acad. Sci. Far East. Sci. Center, Inst. mar. Biol. U.S.S.R. 2, 9, 1974.
- 2001 MINTON, S.A. Marine venoms. In, Textbook of Medicine. 14th edit., Beeson, P.B. and McDermott, W. (eds.), W.B. Saunders: Philadelphia, p. 92, 1975.
- 2002 MINTON, S.A. Spines and stings and sea snakes. Consultant 17, 45, 1977.
- 2003 MISSAKIAN, M.G., BURRESON, B.J. and SCHEUER, P.J. Pukalide, a furanocembranolide from the soft coral Sinularia abrupta. Tetrahedron 31, 2513, 1975.
- 2004 MITCHELL, J.H. Eye injuries due to jellyfish (Cyanea annaskala). Med. J. Aust. (2), 303, 1962.
- 2005 MOEBIUS, K. Über den Bau, den Mechanismus und die Entwicklung der Nesselkapseln einiger Polypen und Quallen. Abh. Gebiets Naturw. Ver., Hamburg 3, 1, 1866.
- 2006 MOHR, M. Über stickstoffhaltige Bestandteile der Qualle (Cyanea capillata). Z. Biol. 98, 120, 1937.
- 2007 MÖLLER, H. and BÉRESS, L. Effect on fishes of two toxic polypeptides isolated from Aneimonia sulcata. Mar. Biol. 32, 189, 1975.
- 2008 MONTEL, G., MONTEL, L., VIELLE, A. and MARTIN. Intoxication par contact avec la méduse feu "Con sur à l'ura." Auto-observation du Dr. Georges Montel. Bull. Soc. Méd.-Chir. Indochine 12, 334, 1934.
- 2009 MONTEL, M.L. À propos de la communication de Ch. Grupper et R. David: dermatite provoquée par le méduse, réaction d'abord atrophique puis atrophique persistante. Bull. Soc. franç. Derm. Syph. 65, 59, 1958.
- 2010 MONTEL, R. Accidents dus à l'impact des filaments pêcheurs de certaines méduses des mers tropicales aperçu sur ces coelentérés. Bull. Soc. Path. exot. 35, 168, 1942.
- 2011 MOORE, R.E. and SCHEUER, P.J. Palytoxins: a new marine toxin from a coelenterate. Science 172, 495, 1971.
- 2012 MOORE, R.E., DIETRICH, R.F., HATTON, B., HIGA, T. and SCHEUER, P.J. The nature of the 263 chromophore in the palytoxins. Org. Chem. 40, 540, 1975.
- 2013 MORIKAWA, Y. [Injuriousness of jellyfish.] Acta Derm. Kyoto 42, 64, 1943.
- 2014 MUNRO, H.S. The nature and mode of action of coelenterate toxins. Thesis, Harvard Univ., 1964.
- 2015 MURAYAMA, M., ABBOTT, N.J., NARAHASHI, T. and SHAPIRO, B.I. Effects of allethrin and Cr-fylactis toxin on the kinetics of sodium conductance of crayfish axon membranes. Comp. gen. Pharmac. 3, 391, 1972.
- 2016 MURBACH, L. Observations on the development and migration of the urticating organs of sea nettles, Cnidaria. Proc. U.S. natn. Mus. 18, 733, 1896.
- 2017 MUSCATINE, L. and LENHOFF, H.M., editors. Coelenterate Biology. Reviews and New Perspectives. Academic: N.Y., 1974.
- 2018 NARAHASHI, T. Marine pharmacology: mode of action of toxins on

- excitable tissues. Fed. Proc. 31, 1115, 1972.
- 2019 NARAHASHI, T. Chemicals as tools in the study of excitable membranes. Physiol. Rev. 54, 813, 1974.
- 2020 NARAHASHI, T. Modulation of nerve membrane sodium channels by neurotoxins. In, Advances in Cytopharmacology. Ceccarelli, B. and Clementi, F. (eds.), Raven Press: N.Y., vol. 3, p. 293, 1979.
- 2021 NARAHASHI, T., MOORE, J.W. and SHAPIRO, B.J. Condylactis toxins: interaction with nerve membrane ionic conductances. Science 163, 680, 1969.
- 2022 NEDERGAARD, N. Venomous jellyfish. J. med. Assoc. Siam 8, 10, 1925.
- 2023 NEEMAN, I., CALTON, G.J. and BURNETT, J.W. Endonucleases from sea nettle venom. Fed. Proc. 37, 938, 1978 (Abst.).
- 2024 NEEMAN, I., CALTON, G.J. and BURNETT, J.W. Endonucleases from jellyfish venoms. Clin. Res. 27, 243, 1979.
- 2025 NEEMAN, I., CALTON, G.J. and BURNETT, J.W. Cytotoxicity and dermonecrosis of sea nettle (Chrysaora quinquecirrha) venom. Toxicon 18, 55, 1980.
- 2026 NEEMAN, I., CALTON, G.J. and BURNETT, J.W. An ultrastructural study of the cytotoxic effect of the venoms from the sea nettle (Chrysaora quinquecirrha) and Portuguese man-of-war (Physalia physalis) on cultured Chinese hamster ovary K-1 cells. Toxicon 18, 495, 1980.
- 2027 NEEMAN, I., CALTON, G.J. and BURNETT, J.W. Purification and characterization of the endonuclease present in Physalia physalis venom. Comp. Biochem. Physiol. 67B, 155, 1980.
- 2028 NEEMAN, I., FISHELSON, L. and KASHMAN, Y. Sarcophine—a new toxin from the soft coral Sarcophyton glaucum (Alcyonaria). Toxicon 12, 593, 1974.
- 2029 NEUBERT, F.R. A jellyfish sting. Br. med. J. (2), 839, 1948.
- 2030 NIELLY, M. Animaux et végétaux nuisibles. In, Eléments de Pathologie Exotique. Delahaye & Lecrosnier: Paris, p. 709, 1881.
- 2031 NIGRELLI, R.F., STEMPIEN, M.F., JR., RUGGIERI, G.D., LIGUORI, V.R. and CECIL, J.T. Substances of potential biomedical importance from marine organisms. Fed. Proc. 26, 1197, 1967.
- 2032 NORTON, T.R., KASHIWAGI, M. and SHIBATA, S. Anthopleurin A, B, and C, cardiotoxic polypeptides from the sea anemones. In, Drugs and Food from the Sea. Myth or Reality? Kaul, P.N. and Sindermann, C.J. (eds.), Univ. Okla. Press: Norman, Okla., p. 37, 1978.
- 2033 NORTON, T.R., SHIBATA, S., KASHIWAGI, I.M. and BENTLEY, J. Isolation and characterization of the cardiotoxic polypeptide anthopleurin-A from the sea anemone Anthopleura xanthogrammica. J. pharm. Sci. 65, 1365, 1976.
- 2034 NOVAK, V., SKET, D., CANKAR, G. and LEBEZ, D. Partial purification of a toxin from tentacles of the sea anemone Anemonia sulcata. Toxicon 11, 411, 1973.
- 2035 O'BRIEN, R.D. Poisons as tools in studying the nervous system. In, Essay in Toxicology. Flood, F.R. (ed.), Academic: N.Y., vol. 1, p. 1, 1969.

- 2036 OHNESER, K. Dermatitis venenata. Rept. Surg. Gen., U.S. Navy, 1903.
- 2037 OLD, E.H.H. A report of several cases with unusual symptoms caused by contact with some unknown variety of jellyfish (Scyphozoa). Philipp. J. Sci. 3, 329, 1908.
- 2038 OLD, E.H.H. Additional report of cases, with unusual symptoms caused by contact with some unknown variety of jellyfish. U.S. Navy med. Bull. 6, 377, 1912.
- 2039 O'NEAL, R.L., HALSTEAD, B.W. and HOWARD, L.D., JR. Injury to human tissues from sea urchin spines. Calif. Med. 101, 199, 1964.
- 2040 ORB, C.H. Warning: enter at your own risk. Emergency 9, 46, 1977.
- 2041 OREO, G.A. Dermatitis venenata resulting from contact with marine animals. Arch. Derm. Syph., New York 54, 637, 1946.
- 2042 OSTMAN, C. Two types of nematocysts in Campanulariidae (Cnidaria, Hydrozoa) studied by light and scanning electron microscopy. Zool. Scr. 8, 5, 1979.
- 2043 OWRE, H.B. Coelenterate nematocysts as a cause of certain kinds of sea stings. Bull. mar. Sci. Gulf Caribb. 6, 309, 1956.
- 2044 PACY, H. Identical skin-eruption in five men after massive exposure to jellyfish (Aurelia). Med. J. Aust. (2), 580, 1957.
- 2045 PANTIN, C.F. The excitation of nematocysts. J. exp. Biol. 19, 294, 1942.
- 2046 PARKER, G.H. Neuromuscular activities of the fishing filaments of Physalia. J. cell. comp. Physiol. 1, 53, 1932.
- 2047 PARKER, G.H. and VAN ALSTYNE, M.A. The control and discharge of nematocysts, especially in Metridium and Physalia. J. exp. Zool. 63, 329, 1932.
- 2048 PAWLOWSKY, E.N. Gifttiere und ihre Giftigkeit. Gustav Fischer: Jena, 516p., 1927.
- 2049 PAWLOWSKY, E.N. Medical geography of the U.S.S.R. Joint Publ. Res. Serv. No. 15, 633. U.S. Dept. Commerce, Off. Tech. Serv., 312p., 1962.
- 2050 PAWLOWSKY, E.N. and STINE, A.K. Experimentelle Untersuchung über die Wirkung des Actinien-giftes (Actinia equina) auf die Menschenhaut. Arch. Derm. Syph. Berlin 157, 647, 1929; see also Trop. Med. Vet. 8, 1, 1930.
- 2051 PAYNE, J.H. Cubomedusae in northern Australian waters. Tenth Pac. Sci. Congr., Honolulu, 1961.
- 2052 PEDRENA, E. The invisible killer (jellyfish). Philippine Free Press, June 6, 1953.
- 2053 PELHATE, M., HUE, B. and SATTELLE, D.B. Pharmacological properties of axonal sodium channels in the cockroach, Periplaneta americana II. Slowing of sodium current turn-off by Condylectis toxin. J. exp. Biol. 83, 49, 1979.
- 2054 PERRET, A.H. Contribution à l'étude des poisons des actinies. Thesis, Paris, 1907.
- 2055 PHILLIPS, C. and BRADY, W.H. Sea Pests: Poisonous or Harmful Sea Life of Florida and the West Indies. Univ. Miami Press: Miami, Florida, 78p., 1953.

- 2056 PHILLIPS, J.H. Isolation of active nematocysts of Metridium senile and their chemical composition. Nature 178, 932, 1956.
- 2057 PHILLIPS, J.H. and ABBOTT, D.P. Isolation and assay of the nematocyst toxin of Metridium senile fimbriatum. Biol. Bull. 113, 296, 1957.
- 2058 PHISALIX, C. Venins et animaux venimeux dans la série animale. Rev. scient., Paris 4.S.8:97, 195, 329, 1897.
- 2059 PHISALIX, M. Animaux Venimeux et Venins. 2 vol., Masson & Cie: Paris, vol. 1, p. 16, 1922.
- 2060 PICKEN, L.E. A note on the nematocysts of Corynactis viridis. Q. J. microsc. Sci. 94, 203, 1953.
- 2061 PICKEN, L.E. Stinging capsules and designing nature. New Biol. 22, 56, 1957.
- 2062 PICKEN, L.E. and SKAER, R.J. A review of researches on nematocysts. In, The Cnidaria and Their Evolution. Rees, W.J. (ed.), Academic: London, p. 19, 1966.
- 2063 FIGULEVSKY, S.V. and MICHAELV, P.V. (MICHALEFF). Poisoning by the medusa Gonionemus vertens in the Sea of Japan. Toxicon 7, 145, 1969.
- 2064 PLOTKE, B. Jelly-fish stings. Br. med. J. (2), 1039, 1948.
- 2065 POPE, E.C. Some sea animals that sting and bite. Aust. Mus. Mag. 9, 164, 1947.
- 2066 POPE, E.C. Sea lice or jellyfish? Aust. Mus. Mag. 11, 16, 1953.
- 2067 POPE, E.C. Marine stingers. Aust. Mus. Mag. 11, 111, 1953.
- 2068 POPE, E.C. Some noxious marine invertebrates from Australian seas. Proc. First Intern. Convention Life Saving Techniques, Part III, Sci. Sect., Bull. Post Grad. Comm. Med., Univ. Sydney, Australia, p. 91, 1963.
- 2069 PORTER, J.L. Meat tenderizer, Jello and jellyfish stings. Am. Biol. Teacher 41, 304, 1979.
- 2070 PORTIER, P. and RICHEL, C. Sur les effets physiologiques du poison des filaments pêcheurs et des tentacules des Coelentérés (hypnotoxine). C.R. Acad. Sci. 134, 247, 1902.
- 2071 PORTIER, P. and RICHEL, C. De l'action anaphylactique de certains venins. C.R. Soc. Biol. 54, 170, 1902.
- 2072 PORTIER, P. and RICHEL, C. Nouveaux faits d'anaphylaxie, ou sensibilisation aux venins par doses répétées. C.R. Soc. Biol. 54, 548, 1902.
- 2073 PRESCOTT, B., THOMAS, G.J., JR., BERESS, L., WUNDERER, G. and TU, A.T. Structural properties of toxin II of sea anemone (Anemone sulcata) determined by laser Raman spectroscopy. F.E.B.S. Lett. 64, 144, 1976.
- 2074 PRESTON, F.S. Coral ulcer. Br. med. J. (1), 642, 1950.
- 2075 PREUNER, J. and RAVENS, U. The effect of Anemonia sulcata toxin (ATX II) on the calcium content and its exchangeability in spontaneously beating atria of the guinea pig. N.-S. Arch. exp. path. Pharmac. 302, R30, 1978.
- 2076 PRICE, J.H. and FORREST, H.S. 310 m absorbence in Physalia physalis: distribution of the absorbence and isolation of a 310 mμ absorbing compound.

Comp. Biochem. Physiol. 30, 879, 1969.

- 2077 PRIVITERA, P. and PRIVITERA, U. Urticating and poisonous action of various species of Cnidaria (Medusa in our waters) (2 clinical cases). Minerva chir. 25, 209, 1970.

- 2078 PROSVIROU, E.S. and IVANOV, Y.N. The charming Physalia, a poisonous animal of tropical Atlantic waters. Priroda 1, 112, 1962.

- 2079 PRYOR, J.C. Marine animal life dangerous to man. In, Naval Hygiene. Blakiston Son Co.: Philadelphia, p. 309, 1918.

- 2080 PUFFER, H.W. Einige biochemische und pharmakologische Eigenschaften der Extrakte von Lytocarpus nuttingi. In, Tier- und Pflanzengifte/Animal and Plant Toxins. Kaiser, E. (ed.), Wilhelm Goldmann: Munich, p. 119, 1973.

- 2081 PUFFER, H.W., MCINTOSH, M.E. and GIVEN, R. Preliminary investigations of toxic material contained in the hydroid Lytocarpus nuttingi. Proc. west. pharmacol. Soc. 13, 120, 1970.

- 2082 QUINN, R.J., KASHIWAGI, M., MOORE, R.E. and NORTON, T.R. Anticancer activity of zoanthids and the associated toxin, palytoxin, against Ehrlich ascites tumor and P-388 lymphocytic leukemia in mice. J. pharm. Sci. 63, 257, 1974.

- 2083 QUINN, R.J., KASHIWAGI, M., NORTON, T.R. et al. Antitumor activity and cardiac stimulatory effects of constituents of Anthopleura elegantissima. J. pharm. Sci. 63, 1798, 1974.

- 2084 RATHMAYER, W. The mechanism of action of toxins from two sea anemone species (Coelenterata).

5th Intern. Symp. Animal, Plant, Microbial Toxins, San Jose, Costa Rica, p. 95, 1976 (Abst.).

- 2085 RATHMAYER, W. Gifte als Werkzeuge. Herkunft und Wirkungsweise wichtiger Toxine und ihre Anwendung in der Forschung. In, Biologie Aktuell. Boger, P. and Sund, H. (eds.), Univ. Konstanz: Konstanz, W. Germany, p. 95, 1978.

- 2086 RATHMAYER, W. Sea anemone toxins: tools in the study of excitable membranes. In, Advances in Cytopharmacology. Ceccarelli, B. and Clementi, F. (eds.), Raven Press: N.Y., vol. 3, p. 335, 1979.

- 2087 RATHMAYER, W. and BÉRESS, L. The effect of toxins from Anemonia sulcata (Coelenterata) on neuromuscular transmission and nerve action potentials in crayfish (Astacus leptodactylus). J. comp. Physiol. 109, 373, 1976.

- 2088 RATHMAYER, W. and BÉRESS, L. Sea anemone toxins: investigations on their mode of action. In, Toxins, Animal, Plant and Microbial. Rosenberg, P. (ed.), Pergamon: Oxford, p. 549, 1978.

- 2089 RATHMAYER, W., JESSEN, B. and BÉRESS, L. Effect of toxins of sea anemones on neuromuscular transmission. Naturwissenschaften 62, 538, 1975.

- 2090 RAVENS, U. Electromechanical studies of an Anemonia sulcata toxin in mammalian cardiac muscle. N.-S. Arch. exp. Path. Pharmacol. 296, 73, 1976.

- 2091 RAVENS, U. Electrophysiological changes accompanying the positive inotropic effect of toxin II isolated from Anemonia sulcata. Deutsche Pharmakol. Ges. 17, Spring Meet., 1976; see also N.-S.

- Arch. exp. Path. Pharmac. Suppl. 293, R20, 1976.
- 2092 RAVENS, U. The effects of sea anemone toxin on electrical and mechanical activity of isolated cardiac muscle. 5th Intern. Symp. Animal, Plant, Microbial Toxins, San Jose, Costa Rica, p. 105, 1976.
- 2093 RAVENS, U. and RITTER, R. Frequency-dependent effects of the sea anemone toxin ATX on cardiac potentials and force of contraction. Deutsche Pharmakol. Ges., Spring Meeting, p. 18, 1977.
- 2094 REES, W.J. The Portuguese man-of-war. Nature 190, 23, 1961.
- 2095 REID, H.A. Clinical aspects of animal toxins. Toxicon 8, 146, 1970 (Abst.).
- 2096 REINWEIN, H. Ueber das Verhalten des Tetramins im Stoffwechsel des Warmblüters. Arch. exp. Path. Pharmac. 100, 254, 1923.
- 2097 REY, M. Effets du poison de différentes actinies sur les crustacés décapodes. Bull. Soc. zool. Fr. 65, 58, 1940.
- 2098 RICE, N.E. and POWELL, W.A. Observations on three species of jelly-fishes from the Chesapeake Bay with special reference to their toxins. I. Chrysaora (Dactylometra) quinquecirrha. Biol. Bull. 139, 180, 1970.
- 2099 RICHET, C. Des effets anaphylactiques de l'actinotoxine sur la pression artérielle. C.R. Soc. Biol. 54, 837, 1902.
- 2100 RICHET, C. Du poison pruritogène et urticant contenu dans les tentacules d'Actinies. C.R. Soc. Biol. 54, 1438, 1902; see also Semaine Med. 22, 418, 1902.
- 2101 RICHET, C. Des poisons contenus dans les tentacules des Actinies (congestine et thalassine). C.R. Soc. Biol. 55, 246, 1903.
- 2102 RICHET, C. De la thalassine toxine cristallisée et pruritogène. C.R. Soc. Biol. 55, 707, 1903.
- 2103 RICHET, C. Des effets prophylactiques de la thalassine et anaphylactiques de la congestine dans le virus des actinies. C.R. Soc. Biol. 56, 302, 1904.
- 2104 RICHET, C. Nouvelles expériences sur les effets prophylactiques de la thalassine. C.R. Soc. Biol. 56, 775, 1904.
- 2105 RICHET, C. De la thalassine pruritogène chez les crevettes (Cran-gon). C.R. Soc. Biol. 56, 777, 1904.
- 2106 RICHET, C. De l'action de la congestine (virus des Actinies) sur les lapins et de ses effets anaphylactiques. C.R. Soc. Biol. 58, 109, 1905.
- 2107 RICHET, C. De l'anaphylaxie après injections de congestine, chez le chien. C.R. Soc. Biol. 58, 112, 1905.
- 2108 RICHET, C. De poisons contenus dans le organismes marins. Arch. intern. Physiol. 2, 139, 1905.
- 2109 RICHET, C. Notizen über Thalassin. Pflügers Arch. ges. Physiol. 108, 369, 1905.
- 2110 RICHET, C. Des l'action toxique de la suberitine (extrait aqueux de Suberites domuncula). C.R. Soc. Biol. 61, 598, 1906.
- 2111 RICHET, C. Anaphylaxie par la mytilo-congestine. C.R. Soc. Biol. 62, 358, 1907.

- 2112 RICHET, C. De l'anaphylaxie en générale et de l'anaphylaxie par la mytilo-congestine en particulier. Ann. Inst. Pasteur 21, 497, 1907.
- 2113 RICHET, C. De la substance anaphylactisante ou toxogénine. C.R. Soc. Biol. 64, 846, 1908.
- 2114 RICHET, C. Note sur l'anaphylaxie des propriétés différentes dissociables par la chaleur d'une substance toxique. C.R. Soc. Biol. 65, 404, 1908.
- 2115 RICHET, C. L'anaphylaxie crée un poison nouveau chez l'animal sensibilisé. C.R. Soc. Biol. 66, 810, 1909.
- 2116 RICHET, C. and PORTIER, P. Recherches sur la toxine des Coelentérés et les phénomènes d'anaphylaxie. Rés. camp. sci., Prince Albert I., Monaco 95, 3, 1936.
- 2117 RICHET, C., PERRET, A. and PORTIER, P. Des propriétés chimiques et physiologiques du poison des actinies (actinotoxine). C.R. Soc. Biol. 54, 788, 1902.
- 2118 RICKETTS, E.F. and CALVIN, J. Between Pacific Tides. 3rd edit., Stanford Univ. Press: Stanford, Calif., 502p., 1952.
- 2119 ROBSON, E.A. Nematocysts of Corynactis. The activity of the filament during discharge. Q. J. microsc. Sci. 94, 229, 1953.
- 2120 ROCHA, P.A.P. Contribuição ao estudo dos medusados. Rev. Med. Municipal, Rio de Janeiro 4, 218, 1945.
- 2121 RODRIGUES, Y.T. Acidentes por mordeduras e picadas em crianças. Brasil-Medico 78, 4, 1964.
- 2122 ROMANO, S. Animali velenosi della fauna Italiana. Natura (Milan) 31, 137, 1940.
- 2123 ROMEY, G. and LAZDUNSKI, M. Scorpion and sea anemone neurotoxin actions on axonal membranes. Proc. 5th Intern. Biophysics Congr., Copenhagen 503, 138, 1975.
- 2124 ROMEY, G., ABITA, J.P., SCHWEITZ, H., WUNDERER, G. and LAZDUNSKI, M. Sea anemone toxin: a tool to study molecular mechanisms of nerve conduction and excitation-secretion coupling. Proc. natn. Acad. Sci. U.S.A. 73, 4055, 1976.
- 2125 ROMEY, G., JACQUES, Y., SCHWEITZ, H., FOSSET, M. and LAZDUNSKI, M. The sodium channel in non-impulsive cells. Interaction with specific neurotoxins. Biochim. biophys. Acta 556, 344, 1979.
- 2126 RUGGIERI, G.D. Drugs from the sea. Marine organisms with novel chemical constituents are excellent sources of new drugs. Science 194, 491, 1976.
- 2127 RUSSELL, F.E. Marine toxins and venomous and poisonous marine animals. In, Advances in Marine Biology. Russell, F.S. (ed.), Academic: London, vol. 3, p. 255, 1965.
- 2128 RUSSELL, F.E. Venomous and poisonous marine animals and their toxins. First Inter-American Naval Res. Conf., San Juan, Puerto Rico, 37p., 1965.
- 2129 RUSSELL, F.E. Toxic marine animals. Naval Res. Rev. 19, 20, 1966.
- 2130 RUSSELL, F.E. Physalia stings: a report of two cases. Toxicon 4, 65, 1966.

- 2131 RUSSELL, F.E. Injuries by venomous animals. Am. J. Nursing 66, 1322, 1966.
- 2132 RUSSELL, F.E. Injuries by venomous animals. Natn. Clearinghouse Poison Control Centers, U.S. Dept. Hlth. Ed., Wlfr., P.H.S., Jan.-Feb., 1967.
- 2133 RUSSELL, F.E. Portuguese man-of-war stings. Mod. Med. 34, 121, 1966.
- 2134 RUSSELL, F.E. Comparative pharmacology of some animal toxins. Fed. Proc. 26, 1206, 1967.
- 2135 RUSSELL, F.E. Pharmacology of animal venoms. Clin. Pharmacol. Therap. 8, 849, 1967.
- 2136 RUSSELL, F.E. Physalia stings. POISONDEX. Micromedex Publ.: Denver, 1967.
- 2137 RUSSELL, F.E. Ammonia for Physalia stings. (Letter). Mod. Med. 35, 144, 1967.
- 2138 RUSSELL, F.E. Poisons and venoms. In, Fish Physiology. Hoar, W.S. and Randall, D.J. (eds.), Academic: N.Y., vol. 3, p. 401, 1969.
- 2139 RUSSELL, F.E. Pharmacology of toxins of marine origin. In, International Encyclopedia of Pharmacology and Therapeutics. Raskova, H. (ed.), Pergamon: Oxford, Sect. 71, vol. 2, p. 3, 1971.
- 2140 RUSSELL, F.E. Poisonous Marine Animals. T.F.H. Publ.: Neptune City, N.J., 176p., 1971.
- 2141 RUSSELL, F.E. Venomous animal injuries. In, Current Problems in Pediatrics. Gluck, L. (ed.), Year Book Med. Publ.: Chicago, vol. III, (9), p. 1, 1973.
- 2142 RUSSELL, F.E. Prevention and treatment of venomous animal injuries. Experientia 30, 8, 1974.
- 2143 RUSSELL, F.E. Animal venoms. In, Practice of Medicine. Wolber, P.G.H. (ed.), Harper & Row: Hagerstown, Md., vol. IX, chap. 30, p. 1, 1975.
- 2144 RUSSELL, F.E. Poisonous and venomous marine animals and their toxins. Ann. N.Y. Acad. Sci. 245, 57, 1975.
- 2145 RUSSELL, F.E. Venomous bites and stings. In, The Merck Manual. 13th edit., Berkow, R. (ed.), Merck, Sharp & Dohme Res. Lab.: Rahway, N.J., p. 1982, 1977.
- 2146 RUSSELL, F.E. Hazardous marine life. Part I: venomous marine animals. Hyperb. Underseas Med. 1, 1, 1978.
- 2147 RUSSELL, F.E. The marine organism sting mystery. (Questions & Answers). J.A.M.A. 243, 1573, 1980.
- 2148 RUSSELL, F.E. Coelenterates. POISONDEX. Micromedex Publ.: Denver, 1980.
- 2149 RUSSELL, F.E. Venom poisoning: snakes, arthropods and marine animals. Emergency Medicine Symposium III, Univ. Calif., San Diego, 1978-81.
- 2150 RUSSELL, F.E. and BRODIE, A.F. Venoms. In, Encyclopedia of Chemistry. Hampel, C.A. and Hawley, G.G. (eds.), Van Nostrand Reinhold: N.Y., p. 1139, 1973.
- 2151 RUSSELL, F.E. and CARLSON, R.W. Marine organisms. In, Biology Data Book. Altman, P.L. and Dittmer, D.S. (eds.), F.A.S.E.B.: Washington, p. 726, 1973.

- 2152 RUSSELL, F.E. and CARLSON, R.W. Jellyfish stings. In, Current Therapy. Conn, H.F. (ed.), W.B. Saunders: Philadelphia, p. 835, 1975; p. 872, 1976.
- 2153 RUSSELL, F.S. Toxicity of jellyfish Chrysaora hysoscella. School Sci. Rev. 78, 275, 1938.
- 2154 RUSSELL, F.S. The Medusae of the British Isles. Cambridge Univ. Press: Cambridge, 530p., 1953; 248p., 1970.
- 2155 SAMS, W.M. Seabather's eruption. Arch. Derm. Syph., Chicago 60, 227, 1949.
- 2156 SANDBERG, D.M., KANCIRUK, P. and MARISCAL, R.N. Inhibition of nematocyst discharge correlated with feeding in a sea anemone, Calliactis tricolor (Lesur). Nature 232, 263, 1971.
- 2157 SCHEUER, P.J. The chemistry of toxins isolated from some marine organisms. Fortschr. Chem. org. Naturst. 22, 265, 1971.
- 2158 SCHEUER, P.J. Recent developments in the chemistry of marine toxins. In, Toxins of Animal and Plant Origin. DeVries, A. and Kochva, E. (eds.), Gordon & Breach: London, vol. 2, p. 545, 1972.
- 2159 SCHEUER, P.J. Chemistry of Marine Natural Products. Academic: N.Y., 213p., 1973.
- 2160 SCHEUER, P.J. Recent developments in the chemistry of marine toxins. Lloydia 38, 1, 1975.
- 2161 SCHEUER, P.J. Marine toxins. Acc. chem. Res. 10, 33, 1977.
- 2162 SCHEUER, P.J. Chemical communication of marine invertebrates. BioScience 27, 664, 1977.
- 2163 SCHEUER, P.J., editor. Marine Natural Products: Chemical and Biological Perspectives. 4 vols., Academic: N.Y., 1978-1981.
- 2164 SCHEUFLER, E., ALSEN, C. and PETERS, T.H. Studies on the interaction of the sea anemone (Anemonia sulcata) toxin ATX II with phospholipids and Na/K-ATPase. Toxicon 16, 427, 1978 (Abst.).
- 2165 SCHIEBLER, W., STENGELIN, S. and HUCHO, F. Neurotoxins as tools for biochemical characterization of ion channels. In, Natural Toxins. Eaker, D. and Wadström, T. (eds.), Pergamon: Oxford, p. 703, 1980.
- 2166 SCHLICHTER, D. Macromolecular mimicry: substances released by sea anemones and their role in the protection of anemone fishes. In, Coelenterate Ecology and Behavior. Mackie, G.O. (ed.), Plenum Press: N.Y., p. 433, 1976.
- 2167 SCHMIDT, H. and BÉRESS, L. Phylogenetische Betrachtungen zur Toxizität und Nesselwirkung einiger Actinaria (Anthozoa) im Vergleich zur Morphologie ihrer Nesselkapseln. Kieler Meeresforsch. 27, 166, 1971.
- 2168 SCHNEIDER, K.C. Mitteilungen über Siphonophoren I. Nesselzellen. Zool. Anz. 17, 461, 1894.
- 2169 SCHNEIDER, K.C. Mitteilungen über Siphonophoren V. Nesselzellen. Arb. zool. Inst., Univ. Wien 12, 133, 1900.
- 2170 SHOLES, W.A. Serum against sea wasps. Sci. News 93, 146, 1968.
- 2171 SCHREIBER, G. Une jeune fille "medusee." Presse méd. 104, 2121, 1933.

- 2172 SCHULTZ, L.A. and CARGO, D.G. The sea nettle of Chesapeake Bay. Nat. Resources Inst., Univ. Maryland, Ed. Ser., (93), 1971.
- 2173 SCHULZE, P. Der Bau und die Entladung der Penetranten bei Hydra attenuata Pallas. Arch. exp. Zellforsch. 16, 383, 438, 1922.
- 2174 SCOTT, H.H. Vegetal and fish poisoning. In, The Practice of Medicine in the Tropics. Byam, W. and Archibald, R.G. (eds.), Frowde & Stoughton: London, p. 790, 1921.
- 2175 SCRIBANE, A., VAN ARMAN, C.G., MORRIS, A.A., MORGAN, G. and BENNETT, C.D. Cardiotoxic activity of anthopleurin-A (AP-A), a polypeptide from sea anemone (Anthopleura xanthogrammica). Fed. Proc. 36, 3711, 1977.
- 2176 SHAPIRO, B.I. Purification of a toxin from the tentacles of the anemone Condylactis gigantea. Toxicon 5, 253, 1968.
- 2177 SHAPIRO, B.I. A site of action of toxin from the anemone Condylactis gigantea. Comp. Biochem. Physiol. 27, 519, 1968.
- 2178 SHAPIRO, B.I. The specific mechanism of action of an invertebrate neurotoxin. 2nd Intern. Symp. Animal Toxins, Tel Aviv, p. 82, Feb. 1970; see also Toxicon 8, 153, 1970 (Abst.).
- 2179 SHAPIRO, B.I. and LILLEHEIL, G. The action of anemone toxin on crustacean neurons. Comp. Biochem. Physiol. 28, 1225, 1969.
- 2180 SHIBATA, S., NORTON, T.R., IZUMI, T., MATSUO, T. and KATSUKI, S. A polypeptide (AP-A) from sea anemone (Anthopleura xanthogrammica) with potent inotropic action. J. Pharmacol. exp. Ther. 199, 298, 1976.
- 2181 SHIER, W.T. Activation of self-destruction as a mechanism of action for cytolytic toxins. In, Natural Toxins. Eaker, D. and Wadstrom, T. (eds.), Pergamon: Oxford, p. 193, 1980.
- 2182 SHIN, M.L., MICHAELS, W.D. and MAYER, M.M. Membrane damage by a toxin from the sea anemone Stoichactis helianthus—II. Effect of membrane lipid composition in a liposome system. Biochim. biophys. Acta 555, 79, 1979.
- 2183 SIMONS, R.D. Jellyfish. In, Handbook of Tropical Dermatology and Medical Mycology. Simons, R.D.G.P. (ed.), Elsevier/North-Holland: Amsterdam, p. 144, 1952.
- 2184 SKAER, R.J. and PICKEN, L.E.R. The structure of the nematocyst thread and the geometry of discharge in Corymactis viridis Allman. Phil. Trans. Roy. Soc. London 250, 131, 1965.
- 2185 SKAER, R.J. and PICKEN, L.E.R. The pleated surface of the undischarged thread of a nematocyst and its simulation by models. J. exp. Biol. 45, 173, 1966.
- 2186 SKET, D., DRASLAR, K., FERLAN, I. and LEBEZ, D. Equinatoxin, a lethal protein from Actinia equina—II. Pathophysiological action. Toxicon 12, 63, 1974.
- 2187 SLAUTTERBACK, D.B. The cnidoblast—musculoepithelial cell complex in the tentacles of Hydra. Z. Zellforsch. mikrosk. Anat. 19, 296, 1967.
- 2188 SLAUTTERBACK, D.B. Nematocyst development. In, Biology of Hydra. Lenhoff, H.M. and Loomis, W.F. (eds.), Univ Miami Press: Coral Gables, p. 77, 1969.

- 2189 SONDERHOFF, R. Über das Gift der Seeanemonen. I. Ein Beitrag zur Kenntnis der Nesselgifte. Ann. Chem. 525, 138, 1936.
- 2190 SOROKHTIN, G.N. A trial of the clinical-experimental study of lesions caused by venomous jellyfish. Acad. Sci. U.S.S.R., Vladivostok, 1951.
- 2191 SOROKIN, M. Medical hazards of the coral reef. Trans. Roy. Soc. trop. Med. Hyg. 69, 94, 1975.
- 2192 SOUTHCOTT, R.V. Fatal stings to North Queensland bathers. Med. J. Aust. (1), 272, 1952.
- 2193 SOUTHCOTT, R.V. Studies on Australian cubomedusae, including a new genus and species apparently harmful to man. Aust. J. mar. freshwater Res. 7, 254, 1956.
- 2194 SOUTHCOTT, R.V. The cubomedusae—lethal jellyfish. Discovery 19, 282, 1958.
- 2195 SOUTHCOTT, R.V. South Australian jellyfish. S. Aust. Nat. 32, 53, 1958.
- 2196 SOUTHCOTT, R.V. Tropical jellyfish and other marine stings. Milit. Med. 124, 569, 1959.
- 2197 SOUTHCOTT, R.V. Venomous jellyfish. Good Health (113), 18, 1960.
- 2198 SOUTHCOTT, R.V. Jellyfish and medicine. Adelaide Med. Student Soc., 73rd Year Rev., p. 33, May 1962.
- 2199 SOUTHCOTT, R.V. Coelenterates of medical importance. In, Venomous and Poisonous Animals and Noxious Plants of the Pacific Region. Keegan, H.L. and MacFarlane, W.V. (eds.), Pergamon: Oxford, p. 41, 1963.
- 2200 SOUTHCOTT, R.V. Identification of jelly-fishes. Proc. First Intern. Convention Life Saving Techniques, Part III, Sci. Sect., Bull. Post Grad. Comm. Med., Univ. Sydney, Australia, p. 111, 1963.
- 2201 SOUTHCOTT, R.V. Fatal and other stings by sea-wasps. Proc. First Intern. Convention Life Saving Techniques, Part II, Sci. Sect., Bull. Post Grad. Comm. Med., Univ. Sydney, Australia, p. 72, 1963.
- 2202 SOUTHCOTT, R.V. Revision of some Carybdeidae (Scyphozoa: Cubomedusae), including a description of the jellyfish responsible for the "Irukandji syndrome." Aust. J. Zool. 15, 651, 1967.
- 2203 SOUTHCOTT, R.V. The Portuguese man-of-war or bluebottle. Aust. nat. Hist. 15, 337, 1967; see also Toxicon 5, 304, 1968; see also S. Aust. Mus. Pamphlet, Graphic Services: Northfield, S. Australia, 1979.
- 2204 SOUTHCOTT, R.V. Human injuries from invertebrate animals in the Australian seas. Clin. Toxicol. 3, 617, 1970.
- 2205 SOUTHCOTT, R.V. The box-jellies or sea-wasps. Aust. nat. Hist. 17, 123, 1971.
- 2206 SOUTHCOTT, R.V. The neurologic effects of noxious marine creatures. In, Contemporary Neurology Series. Hornabrook, R.W. (ed.), F.A. Davis: Philadelphia, Vol. 12, p. 165, 1975.
- 2207 SOUTHCOTT, R.V. Marine envenomation and intoxication in man. In, Neurotoxins. Fundamental and Clinical Advances. Chubb, I.W. and Geffen, L.B. (eds.), Adelaide Univ. Union Press: Adelaide, S. Australia, p. 75, 1979.

- 2208 SOUTHCOTT, R.V. Marine toxins. In, Handbook of Clinical Neurology. Vinken, P.J. and Bruyn, G.W. (eds.), Elsevier/North-Holland: Amsterdam, vol. 37, part 2, p. 27, 1979.
- 2209 SOUTHCOTT, R.V. and KINGSTON, C.W. Lethal jellyfish stings: a study in sea-wasps. Med. J. Aust. (1), 443, 1959.
- 2210 STACKHOUSE, J. Australia's Venomous Wildlife. Paul Hamlyn Pty Ltd.: Sydney, Australia, p. 138, 1970.
- 2211 STENNING, A.E. Poisoning of trachymedusae. Med. J. Aust. (1), 568, 1928.
- 2212 STEWART, B.C. and LAKSHMANAN, S. Some properties of the acid phosphatase and the alkaline phosphatase of the summer jellyfish of the Chesapeake Bay, Chrysaora quinquecirrha Desor. Comp. Biochem. Physiol. 50, 319, 1975.
- 2213 STEWART, D.H. The sting of the sea-nettle. Boston med. surg. J. 187, 337, 1922.
- 2214 STIASNY, G. Alte und neue Scyphomedusen von Australien. Zool. Meded. 9, 249, 1926.
- 2215 STILLWAY, L.W. Nematocyst lipids of the Portuguese man-of-war Physalia physalis. Comp. Biochem. Physiol. 48B, 35, 1974.
- 2216 STILLWAY, L.W. Lipid classes of selected anatomical structures from the Portuguese man-of-war Physalia physalis. Comp. Biochem. Physiol. 63B, 147, 1979.
- 2217 STILLWAY, L.W. and LANE, C.E. Phospholipase in the nematocyst toxin of Physalia physalis. Toxicon 9, 193, 1971.
- 2218 STITT, E.R. Poisonous coelenterates. In, Practical Bacteriology, Blood Work and Animal Parasitology. 7th edit., Stitt, E.R. (ed.), P. Blakiston's Son Co.: Philadelphia, p. 540, 1923.
- 2219 STONE, J.H., BURNETT, J.W. and GOLDNER, R. The amino acid content of sea nettle (Chrysaora quinquecirrha) nematocysts. Comp. Biochem. Physiol. 33, 707, 1970.
- 2220 STRAUGHAN, P.L. An omen from the sea. Aquarium J., p. 388, August 1964.
- 2221 STRAUSS, M.B. Beneath the waters, exotic wounds for the unwary. Physician Sportsmed. 2, 23, 1974.
- 2222 STRONG, R.P. Poisonous arthropods, fish and coelenterates. In, Stitt's Diagnosis, Prevention and Treatment of Tropical Diseases. Stitt, E.R. (ed.), P. Blakiston's Son Co.: Philadelphia, vol. 2, p. 1538, 1944.
- 2223 STUART, M.A. and SLAGLE, T.D. Jellyfish stings, suggested treatment, and report on two cases. U.S. Navy med. Bull. 41, 497, 1943.
- 2224 SUTHERLAND, S.K. Treatment of venomous animal bites and stings in Australia. Med. J. Aust. (1), 177, 1976.
- 2225 SUTHERLAND, S.K. Response to Chironex antivenom. Med. J. Aust. (2), 653, 1979.
- 2226 SUTTON, J.S. and BURNETT, J.W. The histological organization of sea nettle tentacles. A correlation of light and electron microscope observations. Fed. Proc. 27, 504, 1968.
- 2227 SUTTON, J.S. and BURNETT, J.W. A light and electron microscope

- study of nematocytes of Chrysaora quinquecirrha. J. Ultrastruct. Res. 20, 214, 1969; see also Fed. Proc. 27, 504, 1968 (Abst.).
- 2228 TAFT, C.H. Poisonous marine animals. Texas Rep. Biol. Med. 3, 339, 1945.
- 2229 TALIZIN, F.F. Poisonous Animals of the Land and Sea. Moscow, p. 5, 1970.
- 2230 TAMKUN, M.M. and HESSINGER, D.A. Isolation of a hemolytic and lethal protein from Physalia physalis (Portuguese man-of-war) nematocyst venom. Fed. Proc. 38, 824, 1979 (Abst.).
- 2231 TANAKA, M., HANIU, M., YASUNOBU, K.T. and NORTON, T.R. Amino acid sequence of the Anthopleura xanthogrammica heart stimulant, anthopleurin-A. Biochemistry 16, 204, 1977.
- 2232 TARDENT, P. and SCHMID, V. Ultrastructure of mechanoreceptors of the polyp Coryne pintneri (Hydrozoa, athecata). Exp. Cell Res. 72, 265, 1972.
- 2233 TASCHENBERG, C. Die Giftigen Tiere. Ferdinand Enke: Stuttgart, 1909.
- 2234 TAYLOR, K.M. and SPENCE, I. Marine natural products affecting neurotransmission. In, Neurotoxins. Fundamental and Clinical Advances. Chubb, I.W. and Gelfen, L.B. (eds.), Adelaide Univ. Union Press: Adelaide, S. Australia, p. 85, 1979.
- 2235 TAZIEFF-DEPIERRE, F., CHOUCAVY, M. and MÉTÉZEAU, P. Pharmacological properties of toxins isolated from Anemonia sulcata. C.R. hebdomadaire des Séances de l'Académie des Sciences. Série D 283, 699, 1976.
- 2236 TAZIEFF-DEPIERRE, F., CHOUCAVY, M. and GOUDOU, D. Action de la toxine II isolée de l'anémone de mer (Anemonia sulcata) sur l'iléon isolé de cobaye. C.R. Acad. Sci. Ser. D 248, 1465, 1977.
- 2237 TAZIEFF-DEPIERRE, F., CHOUCAVY, M. and GOUDOU, D. Action of the toxins obtained from Anemonia sulcata and from scorpion venoms in the ileum isolated from a reserpinized guinea pig. C.R. hebdomadaire des Séances de l'Académie des Sciences. Série D 285, 1659, 1977.
- 2238 TAZIEFF-DEPIERRE, F., MÉTÉZEAU, P. and CHOUCAVY, M. Pharmacological investigations on purified toxins isolated from the sea anemone Anemonia sulcata. In, Toxins, Animal, Plant and Microbial. Rosenberg, P. (ed.), Pergamon: Oxford, p. 557, 1978.
- 2239 TAZIEFF-DEPIERRE, F., MÉTÉZEAU, P. and WUNDERER, G. Action of toxin II from the sea Anemonia sulcata on the frog neuromuscular transmission blocked by botulinum toxin. C.R. Acad. Sci. Ser. D 286, 655, 1978.
- 2240 TAZIEFF-DEPIERRE, F., CHOUCAVY, M., GOUDOU, D. and MÉTÉZEAU, P. Action of purified toxins isolated from the scorpion and the Anemonia sulcata venoms on neuro-transmitter release. Period. Biol. 80, 107, 1978.
- 2241 TAZIEFF-DEPIERRE, F., CHOUCAVY, M., GOUDOU, D. and MÉTÉZEAU, P. Action of purified toxins isolated from the scorpion and the Anemonia sulcata venoms. Toxicon 16, 428, 1978.
- 2242 TEDESCHI, G.G., ECKERT, W.C. and TEDESCHI, L.G. Forensic Medicine. 3 vols., W.B. Saunders: Philadelphia, 1977.

- 2243 TESSERAUX, I. and ALSEN, C. Comparison of neurotoxic and cardiotoxic effects of sea anemone (*Anemonia sulcata*) toxins in mammals. Toxicon **16**, 428, 1978 (Abst.).
- 2244 TESSERAUX, I. and ALSEN, C. Studies on the mode of action of ATX II, a toxin from *Anemonia sulcata*, on chronically denervated rat diaphragms. Toxicon **17** (Suppl. 1), 188, 1979 (Abst.).
- 2245 THOMAS, E.J. Jellyfish and Portuguese man-of-war stings. J. Fla. med. Assoc. **26**, 83, 1939.
- 2246 THOMPSON, T.E. and BENNETT, I. *Physalia* nematocysts: utilized by mollusks for defense. Science **166**, 1532, 1969.
- 2247 TIFFANY, W.J., III and HEYL, M.G. Invertebrate mass mortality induced by a *Gymnodinium breve* red tide in Gulf of Mexico waters at Sarasota, Florida. J. environ. Sci. Hlth. Part A, **13**, 653, 1978.
- 2248 TOOM, P.M. Effects of jellyfish toxins on active sodium transport. 5th Intern. Symp. Animal, Plant, Microbial Toxins, San Jose, Costa Rica, p. 104, 1976 (Abst.).
- 2249 TOOM, P.M. and CHAN, D.S. Enzymatic activities of venom from the jellyfish *Stomolophus meleagris*. Comp. Biochem. Physiol. **43B**, 455, 1972.
- 2250 TOOM, P.M. and CHAN, D.S. Preliminary studies of nematocysts from the jellyfish *Stomolophus meleagris*. Toxicon **10**, 605, 1972.
- 2251 TOOM, P.M. and PHILLIPS, T.D. Effects of purified components of jellyfish toxin (*Stomolophus meleagris*) on active sodium transport. Toxicon **13**, 261, 1975.
- 2252 TOOM, P.M. and PHILLIPS, T.D. Some effects of purified components of jellyfish toxin on adenosine triphosphate activities. In, Toxins. Animal, Plant and Microbial. Rosenberg, P. (ed.), Pergamon: Oxford, p. 527, 1978.
- 2253 TOOM, P.M., PHILLIPS, T.D. and KOCH, R.B. Effects of purified components of jellyfish toxin (*Stomolophus meleagris*) on adenosine triphosphatase activities. Biochem. Pharmac. **25**, 551, 1976.
- 2254 TOOM, P.M., LARSEN, J.B., CHAN, D.S., PEPPER, D.A. and PRICE, W. Cardiac effects of *Stomolophus meleagris* (cabbage-head jellyfish toxin). Toxicon **13**, 159, 1975.
- 2255 TOPPE, O. Über die Wirkungsweise der Nesselkapseln von *Hydra*. Zool. Anz. **33**, 798, 1909.
- 2256 TOTTON, A.K. A synopsis of the Siphonophora. Br. Mus. (Nat. Hist.) London, 1965.
- 2257 TOTTON, A.K. and MACKIE, G.O. Studies on *Physalia physalis* (L.). Discovery Repts. **30**, 301, 1960.
- 2258 TOYOFUKU, W. Toxic venom in the wana. Proc. Hawaii Acad. Sci., p. 33, 1966-67.
- 2259 TURLAPATY, P., SHIBATA, S., NORTON, T.R. and KASHIWAGI, M. A possible mechanism of action of a central stimulant substance isolated from sea anemone *Stoichactis kenti*. Eur. J. Pharmac. **24**, 310, 1973.
- 2260 TURNER, R.J. and FREEMAN, S.E. Effects of Chironex fleckeri toxin on the isolated perfused guinea pig heart. Toxicon **7**, 277, 1969.
- 2261 TURSCH, B., BRAEKMAN, J.C., DALOZE, D. and KAISIN, M. Terpenoids from colenterates. In,

- Marine Natural Products: Chemical and Biological Perspectives. Scheuer, P.J. (ed.), Academic: N.Y., vol. 2, p. 247, 1978.
- 2262 TYSON, E.B. Tropical jellyfish sting—reaction to. Milit. Med. 120, 216, 1957.
- 2263 UCHIDA, T. Revision of Japanese Cubomedusae. Publ. Seto mar. Biol. Lab. 17, 289, 1970.
- 2264 UEMURA, D., UEDA, K., HIRATA, Y., KATAYAMA, C. and TANAKA, J. Structural studies on palytoxin, a potent coelenterate toxin. Tetrahedron Lett. 21, 4867, 1980.
- 2265 UVNÄS, B. Mechanism of action of a histamin-liberating principle in jellyfish (*Cyanea capillata*). Ann. N.Y. Acad. Sci. 90, 751, 1960.
- 2266 UVNÄS, B. Symposium on the chemistry of toxic substances. VII. A toxic (histamine-releasing) principle from tentacles of *Cyanea capillata* (the stinging jellyfish). J. med. pharm. Chem. 4, 511, 1961.
- 2267 V., A.E. Poisonous jellyfish. Science 11, 146, 1888.
- 2268 VADER, W. A blue stinging jellyfish, *Cyanea lamarcki*, found in northern Norway. Tromsø Mus. Zool. 30, 237, 1977.
- 2269 VAN LIERE, E.J. Sherlock Holmes and the Portuguese man-of-war. West. Virginia med. J. 48, 10, 1952.
- 2270 VANNUCCI, M. Hydrozoa e Scyphozoa existentes no Instituto Paulista de Oceanografia. Bol. Inst. Paulista Oceanogr. 2, 69, 1951.
- 2271 VANNUCCI, M. Venomous coelenterates. Mem. Inst. Butantan Simp. Internac. 33, 659, 1966 (publ. 1968).
- 2272 VAN THOAI, N. and ROCHE, J. Phosphagens of marine animals. Ann. N.Y. Acad. Sci. 90, 923, 1960.
- 2273 VINCENT, J.P., BALERNA, M., BARHANIN, J., FOSSET, M. and LAZDUNSKI, M. Binding of sea anemone toxin to receptor sites associated with gating system of sodium channel in synaptic nerve endings in vitro. Proc. natn. Acad. Sci. U.S.A. 77, 1646, 1980.
- 2274 VON LEDENFELD, R. The function of nettle cells. Q. J. microsc. Sci. 27, 393, 1887.
- 2275 VON LEDENFELD, R. Die Nesselzellen. Biol. Zbl. 7, 225, 1887.
- 2276 VON UEXKÜLL, J. Die Physiologie der Pedicellarian. Z. Biol. Ser. 2 37, 344, 1899.
- 2277 VON ZEYNEK, R. Chemische Studien über *Rhizostoma cuvieri*. Monatsh. Chem., Vienna 34, 581, 1913; see also Sber. Akad. Wiss. Wien. Math. Naturw. Klasse IIB 121(9-10), 1539, 1913.
- 2278 WADE, H.W. Post-mortem findings in acute jellyfish poisoning with sudden death in status lymphaticus. Am. J. trop. Med. 8, 233, 1928.
- 2279 WALKER, M.J.A. Pharmacological and biochemical properties of a toxin containing material from the jellyfish, *Cyanea capillata*. Toxicon 15, 3, 1977.
- 2280 WALKER, M.J.A. The cardiac actions of a toxin-containing material from the jellyfish, *Cyanea capillata*. Toxicon 15, 15, 1977.
- 2281 WALKER, M.J.A., MARTINEZ, T.T. and GODIN, D.V. Investigations

- into the cardiotoxicity of a toxin from the nematocysts of the jellyfish, *Cyanea capillata*. Toxicon 15, 339, 1977.
- 2282 WANGERSKY, E.D. and LANE, C.E. Interaction between the plasma of the loggerhead turtle and toxin of the Portuguese man-of-war. Nature 185, 330, 1960.
- 2283 WARSHOFSHY, F. Beware the deadly man-of-war. (Nat. Wildl.) Reader's Dig., p. 81, June 1966.
- 2284 WASUWAT, S. Extract of *Ipomoea pes-caprae* (Convolvulaceae) antagonistic to histamine and jelly-fish poison. Nature 225, 758, 1970.
- 2285 WATROUS, J.J. and BLASETTO, J.W. A reinvestigation of the action of *Chrysaora quinquecirrha* (sea nettle toxin) on rat liver mitochondria. Toxicon 16, 300, 1978.
- 2286 WATROUS, J. and WALSH, E.P. The action of *Chrysaora quinquecirrha* (sea nettle) toxin in inhibiting the intestinal transport of glucose in the golden hamster. Toxicon 14, 179, 1976.
- 2287 WATROUS, J., DUBYAK, G. and SAWULA, B. Effects of sea nettle toxin on glucose transport in hamster intestine. Toxicon 12, 657, 1974.
- 2288 WEILL, R. Les nématocystes et spirocystes des coelentérés. C.R. Acad. Sci. 180, 474, 1925.
- 2289 WEILL, R. Le fonctionnement des nématocystes des coelentérés. C.R. Soc. Biol. 92, 507, 1925.
- 2290 WEILL, R. Une technique permettant d'obtenir la dévagination des nématocystes au ralenti, d'une quantité préalablement déterminée et fractionnée la conservation des nématocystes. C.R. Soc. Biol. 94, 1328, 1926.
- 2291 WEILL, R. Essai d'une classification des nématocystes des cnidaires. Bull. Biol. France-Belg. 64, 141, 1930.
- 2292 WEILL, R. Contributions à l'étude des Cnidaires et de leur nematocystes. Trav. Sta. Zool. Wimereux, Paris, Tome 10, 11, 347p., 1934.
- 2293 WEILL, R. Une technique simple d'extraction du venin des nématocystes d'*Anemonia sulcata*. C.R. Acad. Sci. 252, 455, 1961.
- 2294 WEILL, R. Obtention expérimentale de cnidaires à tentacules démunis de nematocystes. C.R. Acad. Sci. 252C, 324, 1961.
- 2295 WEILL, R. Résistance à la chaleur et au froid nématocystes tentaculaires d'*Anemonia sulcata*. C.R. Acad. Sci. 254, 4343, 1962.
- 2296 WEINHEIMER, A.J. and SPRAGGINS, R.L. The occurrence of two new prostaglandin derivatives (15-epi-PGA₂ and its acetate methyl ester) in the gorgonian *Plexaura homomalla*. Tetrahedron Lett. 5185, 1969.
- 2297 WEISMANN, R. Accidents graves consécutifs aux piqûres de Méduses. Intervention de l'anaphylaxie. C.R. Soc. Biol. 78, 391, 1915.
- 2298 WELSH, J.H. On the nature and action of coelenterate toxins. Pap. mar. Biol. Oceanogr., Deep-Sea Res. Suppl. 3, 287, 1956.
- 2299 WELSH, J.H. 5-hydroxytryptamine in coelenterates. Nature 186, 811, 1960.
- 2300 WELSH, J.H. Compounds of pharmacological interest in coelenterates. In, The Biology of Hydra.

- Lenhoff, H.M. and Loomis, W.F. (eds.), Univ. Miami Press: Coral Gables, Florida, p. 179, 1961.
- 2301 WELSH, J.H. Composition and mode of action of some invertebrate venoms. Ann. Rev. Pharmacol. 4, 293, 1964.
- 2302 WELSH, J.H. and PROCK, P.B. Quaternary ammonium bases in the coelenterates. Biol. Bull. 115, 551, 1959.
- 2303 WERNER, B. Die Nesselkapseln der Cnidaria, mit besonderer Berücksichtigung der Hydroida, I. Klassifikation und Bedeutung für die Systematik und Evolution. Helgoländer wiss. Meeresunters. 12, 1, 1965.
- 2304 WESSEL, G.H. Ammonia for Physalia sting. Mod. Med. 35, 144, 1967.
- 2305 WESTFALL, J.A. Nervous control of nematocyst discharge: chemical synapses. Amer. Zool. 9, 1141, 1969.
- 2306 WESTFALL, J.A. The nematocyte complex in a hydromedusan, Gonionemus vertens. Z. Zellforsch. mikrosk. Anat. 110, 457, 1970.
- 2307 WHITE, R.P. The Dermatoergoses; or Occupational Affections of the Skin. 4th edit., H.K. Lewis Co.: London, 716p., 1934.
- 2308 WHITLEY, G.P. Dangerous Australian fishes. Proc. First Intern. Convention Life Saving Techniques, Sci. Sect., Bull. Post Grad. Comm. Med., Univ. Sydney, Australia, p. 131, 1963.
- 2309 WILES, J.S., VICK, J.A. and CHRISTENSEN, M.K. Toxicological evaluation of palytoxin in several animal species. Toxicon 12, 427, 1974.
- 2310 WILL, L. Ueber das Vorkommen kontraktile Elemente in den Nesselzellen der Coelenteraten. S.B. naturf. Ges.-Rostock 1, 33, 1909.
- 2311 WILL, L. Kolloidal Substanz als Energiequelle für die mikroskopischen Schusswaffen der Coelenteraten. Abh. K. Preuss. Akad. Wiss. Berlin 1, 1, 1914.
- 2312 WILLEM, V. Résumé de nos connaissances sur la physiologie des céphalopodes. Bull. Sci. France Belgique 31, 1898.
- 2313 WILLIAMSON, J.A., CALLAHAN, V.I. and HARWICK, R.F. Serious envenomation by the Northern box-jellyfish (Chironex fleckeri). Med. J. Aust. (1), 13, 1980.
- 2314 WITTLE, L.W. and WHEELER, C.A. Toxic and immunological properties of stinging coral toxin. Toxicon 12, 487, 1974.
- 2315 WITTLE, L.W., MIDDLEBROOK, R.E. and LANE, C.E. Isolation and partial purification of a toxin from Millepora alcicornis. Toxicon 9, 327, 1971.
- 2316 WITTLE, L.W., SCURA, E.D. and MIDDLEBROOK, R.E. Stinging coral (Millepora tenera) toxin: a comparison of crude extracts with isolated nematocyst extracts. Toxicon 12, 481, 1974.
- 2317 WRATTEN, S.J., FAULKNER, D.J., HIROTSU, K. and CLARDY, J. Stylatulide, a sea pen toxin. J. Am. chem. Soc. 99, 2824, 1977.
- 2318 WUNDERER, G. Biologisch aktive Polypeptide aus der Seeanemone Anemonia sulcata. Dissertation, Tech. Univ. München, 1975.
- 2319 WUNDERER, G. Biochemical investigations on the composition of a toxin from the sea anemone Anemonia sulcata. Proc. 5th Intern. Congr. Animal, Plant, Microbial

Toxins, San Jose, Costa Rica, 1976.

- 2320 WUNDERER, G. Die Disulfidbrücken von Toxin II aus *Anemonia sulcata*. Hoppe-Seyler's Z. physiol. Chem. **359**, 1193, 1978.
- 2321 WUNDERER, G. and EULITZ, M. Amino-acid sequence of toxin I from *Anemonia sulcata*. Eur. J. Biochem. **89**, 11, 1978.
- 2322 WUNDERER, G., MACHLEIDT, W. and WACHTER, E. Toxin II from *Anemonia sulcata*—the first sequence of a coelenterate toxin. Hoppe-Seyler's Z. physiol. Chem. **357**, 239, 1976.
- 2323 WUNDERER, G., BÉRESS, L., MACHLEIDT, W. and FRITZ, H. Broad specificity inhibitors from sea anemones. Meth. Enzym. **45**, 881, 1976.
- 2324 WUNDERER, G., BÉRESS, L., MACHLEIDT, W. and FRITZ, H. Broad specificity proteinase inhibitors from sea anemones. In, Protides of the Biological Fluids. (23rd colloq.), Petters, H. (ed.), Pergamon: N.Y., p. 285, 1976.
- 2325 WUNDERER, G., BÉRESS, L., MACHLEIDT, W. and FRITZ, H. Polypeptides from sea anemones: structure and function of toxins and proteinase-inhibitors from *Anemonia sulcata*. 5th Intern. Symp. Animal, Plant, Microbial Toxins, San Jose, Costa Rica, p. 43, 1976.
- 2326 WUNDERER, G., FRITZ, H., WACHTER, E. and MACHLEIDT, W. Amino-acid sequence of a coelenterate toxin: toxin II from *Anemonia sulcata*. Eur. J. Biochem. **68**, 193, 1976.
- 2327 WUNDERER, G., WACHTER, E., BÉRESS, L. and EULITZ, M. Toxins from sea anemones. 2nd Eur. Symp. Animal, Plant, Microbial

Toxins, p. 21, 1977; see also Toxicon **16**, 430, 1978.

- 2328 WUNDERER, G., KUMMER, K., FRITZ, H., BÉRESS, L. and MACHLEIDT, W. Broad specificity-inhibitors from sea anemones. In, Proteinase Inhibitors. (Proc. 2nd Intern. Conf., Bayer Symp. V), Fritz, H., Tschesche, H., Green, L.J. and Truscheit, E. (eds.), Springer-Verlag: Berlin, p. 277, 1974.
- 2329 WUTH, E.M. On fish-poison. Aust. med. J. **22**, 273, 1877.
- 2330 YALDWYN, J.C. Queensland's deadly "sea wasp" photographed alive. Aust. nat. Hist. **14**, 312, 1964.
- 2331 YANAGITA, T.M. [Discharge of nematocysts.] J. Fac. Sci., Univ. Tokyo, Sect. IV **6**, 97, 1943.
- 2332 YANAGITA, T.M. The influence of immersion media on the "longevity" of isolated nematocysts of sea-anemone. Nat. Sci. Rept., Ochanomizu Univ. **2**, 117, 1951.
- 2333 YANAGITA, T.M. Physiological mechanism of nematocyst responses in sea anemone. I. Effects of trypsin and thioglycolate upon the isolated nematocysts. Jpn. J. Zool. **12**, 361, 1959.
- 2334 YANAGITA, T.M. Physiological mechanism of nematocyst responses in sea-anemone. II. Effects of electrolyte ions upon the isolated cnidae. J. Fac. Sci., Univ. Tokyo, Sect. IV **8**, 381, 1959.
- 2335 YANAGITA, T.M. Physiological mechanism of nematocyst responses in sea-anemone. VII. Extrusion of resting cnidae—its nature and its possible bearing on the normal nettling response. J. exp. Biol. **36**, 478, 1959.
- 2336 YANAGITA, T.M. Physiological mechanism of nematocyst

- responses in sea-anemone. III. Excitation and anesthetization of the nettling response system. Comp. Biochem. Physiol. 1, 123, 1960.
- 2337 YANAGITA, T.M. Physiological mechanism of nematocyst responses in sea-anemone. IV. Effects of surface-active agents on the Cnidae in situ and in isolation. Comp. Biochem. Physiol. 1, 140, 1960.
- 2338 YANAGITA, T.M. The physiological mechanism of nematocyst responses in sea-anemone. V. The effects of lipoid solvents on the cnidae in situ and in isolation. Annotnes zool. Jpn. 33, 203, 1960.
- 2339 YANAGITA, T.M. The "cnidoblast" as an excitable system. Publ. Seto mar. Biol. Lab. 20, 675, 1973.
- 2340 YANAGITA, T.M. and WADA, T. Discharge-inducing concentrations of acids and bases for the nematocysts of anemone. Nat. Sci. Rept. Ochanomizu Univ. 4, 112, 1953.
- 2341 YANAGITA, T.M. and WADA, T. Effects of trypsin and thioglycolate upon the nematocysts of the sea anemone. Nature 173, 171, 1954.
- 2342 YANAGITA, T.M. and WADA, T. Physiological mechanism of nematocyst responses in sea-anemone. VI. A note on the microscopical structure of acontium, with special reference to the situation of Cnidae within its surface. Cytologia (Tokyo) 24, 81, 1959.
- 2343 YATSKOV, L.P. Neurological characteristic of the diseases caused by venomous medusa *Gonionemus vertens vertens*. Trans. Acad. Sci. Far East. Sci. Center, Inst. mar. Biol., U.S.S.R. 2, 46, 1974.
- 2344 YOST, G.A. and O'BRIEN, R.D. Isolation of the two components of *Condylactis* toxin. Arch. Biochem. Biophys. 185, 483, 1978.
- 2345 ZERVOS, S.G. La maladie des pêcheurs d'éponges. Paris Med. 93, 89, 1934.
- 2346 ZERVOS, S.G. La maladie des pêcheurs d'éponges nus et l'anemone de la mer "actinion." Bull. Acad. Med. 119, 379, 1938.
- 2347 ZICK, K. Die Wirkung der Nesselkapseln auf Protozoen. Zugleich ein Beitrag zur Frage nach der Funktion der Nesselkapseln. Zool. Anz. 83, 295, 1929.
- 2348 ZIEMAN, S.A. Jellyfish, or "Portuguese man-of-war." J.A.M.A. 99, 1713, 1932.
- 2349 ZLOTKIN, E. Chemistry of animal venoms. Experientia 29, 1453, 1973.

CHAPTER VI

ECHINODERMATA (Echinoderms)

Citations treating of the venomous and poisonous echinoderms—the sea stars (starfishes), sea urchins, and sea cucumbers—will be found in this chapter. Approximately 85 of the 6000 species comprising four classes are known to be toxic.

In the asteroids (sea stars) the poison apparatus is thought to be associated with certain acidophilic cells in the epidermis. The toxin is discharged by these cells into the water or, as in the case of humans, directly onto the skin. In addition, sea stars have stinging cells, or pedicellariae, which contain a toxin. Some sea stars produce poisoning following ingestion.

The principal venom apparatus in the sea urchins is the glandular gemmiform or globiferous pedicellaria, which is a modified spine with a flexible head and three calcareous jaws, each having a rounded, tooth-like fang. Some secondary sea-urchin spines also contain a venom.

Some toxic sea cucumbers have special defense organs, which can be emitted through the anus. These may release a proteinaceous material. However, some sea cucumbers do not possess these Cuvierian tubules; they discharge their toxin through the body wall. Humans eating these animals may be poisoned.

- 2350 AKIYA, R. [Starfish lees is effective for extermination of flies.] Rept. Hokkaido Fish. Lab. 361, 10, 1937.
- 2351 ALENDER, C.B. The venom from the heads of the globiferous pedicellariae of the sea urchin, Tripneustes gratilla (Linnaeus). Thesis, Univ. Hawaii, 1964.
- 2352 ALENDER, C.B. A biologically active substance from the spines of two diadematid sea urchins. In, Animal Toxins. Russell, F.E. and Saunders, P.R. (eds.), Pergamon: Oxford, p. 145, 1967; see also Toxicon 4, 296, 1967 (Abst.).
- 2353 ALENDER, C.B. The venom from the pedicellariae and spines of Strongylocentrotus purpuratus. 2nd Intern. Symp. Animal Toxins, Tel Aviv, p. 22, 1970 (Abst.).
- 2354 ALENDER, C.B. and RUSSELL, F.E. Pharmacology. In, Physiology of Echinodermata. Boolootian, R.A. (ed.), Interscience: N.Y., p. 529, 1966.
- 2355 ALENDER, C.B., FEIGEN, G.A. and TOMITA, J.T. Isolation and characterization of sea urchin toxin. Toxicon 3, 9, 1965.
- 2356 ANDO, Y. Sea hare feeding behavior. Kagaku 22, 87, 1952.
- 2357 ANDO, Y. and HASEGAWA, O. [Study of preventive effect of starfish lees to flies.] Rept. Hokkaido Hyg. Lab. 7, 67, 1955.
- 2358 ANISIMOV, M.M., FRONERT, E.B., KUZNETSOVA, T.A. and ELYAKOV, G.B. The toxic effect of triterpene glycosides from Stichopus japonicus Selenka on early embryogenesis of the sea urchin. Toxicon 11, 109, 1973.
- 2359 ANISIMOV, M.M., SHCHEGLOV, V.V., STONIK, V.A., FRONERT, E.B. and ELYAKOV, G.B. The toxic effect of cucumarioside C from Cucumaria fraudatrix on early embryogenesis of the sea urchin. Toxicon 12, 327, 1974.
- 2360 ANISIMOV, M.M., SHENTSOVA, E.B., SHCHEGLOV, V.V. et al. Toxic effects of certain pentacyclic triterpenoids on early embryogenesis of the sea urchin. Toxicon 14, 259, 1976.
- 2361 ANON. Plenary session: report of "B" group. Proc. First Intern. Convention Life Saving Techniques, Part III, Sci. Sect., Bull. Post Grad Comm. Med., Univ. Sydney, Australia, p. 121, 1963.
- 2362 ANON. Water, water everywhere. Emerg. Med. 3, 108, 1973.
- 2363 APSIMON, J.W., BUCCINI, J.A. and BADRIPERSAUD, S. Marine organic chemistry. I. Isolation of 3 α ,6 α dihydroxy-5 α -pregn-9(11)-en-20-one from the saponins of the starfish Asterias forbesi. A rapid method for extracting starfish saponins. Can. J. Chem. 51, 850, 1973.
- 2364 ARVY, L. Toxicité des tissus de Holothuria tubulosa, de H. polii et de H. impatiens pour quelques vertébrés. C.R. Acad. Sci. 239, 1432, 1954.
- 2365 ATZ, J.W. Beneficent poison from the sea? Animal Kingdom 55, 175, 1952.
- 2366 AZHGIKHIN, I.S., GANDEL, V.G., MEKHTIKHANOV, S.D., SEREBRIANNIKOV, N.V. and AKSENOVA, N.A. [Obtaining tetrodotoxin and holothurin from Soviet raw materials.] Farmatsiia (4), 27, 1979.
- 2367 BACQ, Z.M. Recherches sur la physiologie et la pharmacologie du système nerveux autonome. XVII. Les esters de la choline

- dans les extraits des tissus des invertébrés. Arch. intern. Physiol. **42**, 24, 1935.
- 2368 BADEN, H.P. and BURNETT, J.W. Injuries from sea urchins. South. med. J. **70**, 459, 1977.
- 2369 BAGNIS, R., BERGLUND, R., ELIAS, P.S. et al. Problems of toxicants in marine food products I. Marine biotoxins. Bull. Wld. Hlth. Org. **42**, 69, 1970.
- 2370 BAKUS, G.J. Defensive mechanisms and ecology of some tropical holothurians. Intern. J. Life Oceans Coast. Waters **2**, 23, 1968; see also Mar. Biol. **2**, 23, 1968.
- 2371 BAKUS, G.J. The biology of tropical holothurians. In, Biology and Geology of Coral Reefs. Jones, O.A. and Endean, R. (eds.), Academic: N.Y., vol. 2, p. 325, 1973.
- 2372 BAKUS, G.J. Toxicity in holothurians: a geographic pattern. Biotropica **6**, 229, 1974.
- 2373 BAKUS, G.J. and GREEN, G. Toxicity in sponges and holothurians: a geographic pattern. Science **185**, 591, 1974.
- 2374 BANG, F.B. and CHAET, A.B. The effect of starfish toxins on amoebocytes. Biol. Bull. **117**, 403, 1959.
- 2375 BARNES, J. and ENDEAN, R. A dangerous starfish—Acanthaster planci (Linne). Med. J. Aust. (1), 592, 1964.
- 2376 BARRACLOUGH FELL, H. Echinoderms: sirens of the sea. Oceans **3**, 52, 1970.
- 2377 BARTHELS, P. Die grossen Hautdrüsen der Echinasterarten. Zool. Anz. **29**, 639, 1906.
- 2378 BAZEX, A., BAZEX, J. and ALBAREL, N. Granulome à piqûres d'oursins avec lésions osseuses sous-jacentes. Bull. Soc. franç. Derm. Syph. **82**, 153, 1975.
- 2379 BIEDEBACH, M.C., JACOBS, G.P. and LANGJAHN, S.W. Muscle membrane potential effects of a toxin extract from the sea urchin Lytechinus pictus (Verrill). Comp. Biochem. Physiol. **59C**, 11, 1978.
- 2380 BOOLOOTIAN, R.A., editor. Physiology of Echinodermata. Interscience: N.Y., 1966.
- 2381 BOYE, L.V. Echinodermata et coelenterata. In, Traité de pathologie exotique, clinique, et thérapeutique. Grall, C. and Clarac, A. (eds.), Paris, p. 434, 1911.
- 2382 BROWN, C.H. Keratins in invertebrates. Nature **166**, 439, 1950.
- 2383 BUNDY, H.F. and GUSTAFSON, J. Purification and comparative biochemistry of a protease from the starfish Pisaster giganteus. Comp. Biochem. Physiol. **44**, 241, 1973.
- 2384 CALMETTE, A. Les Venins. Les Animaux Venimeux et la Sérothérapie Antivenimeuse. Masson & Cie: Paris, 396p., 1907.
- 2385 CALMETTE, A. Venoms. Venomous Animals and Antivenomous Serum-Therapeutics. John Bale, Sons & Danielsson: London, 1908.
- 2386 CAMERON, A.M. Toxicity phenomena in coral reef waters. Proc. 2nd Intern. Coral Reef Symp. **1**, 513, 1974.
- 2387 CHAET, A.B. Heat death in Phascolosoma. Biol. Bull. **101**, 206, 1951.

- 2388 CHAET, A.B. Further studies on the toxic factor in Phascolosma. Biol. Bull. 109, 356, 1955.
- 2389 CHAET, A.B. Mechanism of toxic factor release. Biol. Bull. 111, 298, 1956.
- 2390 CHAET, A.B. Demonstration of a toxic factor(s) in thermal death. Proc. Soc. exp. Biol. Med. 91, 599, 1956.
- 2391 CHAET, A.B. Demonstration of burn toxins in invertebrates. Res. Burns Publ. (9), 1962.
- 2392 CHAET, A.B. A toxin in the coelomic fluid of scalded starfish (Asterias forbesi). Proc. Soc. exp. Biol. Med. 109, 791, 1962.
- 2393 CHAET, A.B. Shedding substance and "shedhibin"—from the nerves of the starfish, Patiria miniata. Am. Zool. 4, 407, 1964.
- 2394 CHAET, A.B. and COHEN, S.I. A source of toxic factor(s) in scalded starfish. Biol. Bull. 115, 347, 1958.
- 2395 CHAET, A.B., SELLERS, R. and KENNAN, D. Further characteristics of a burn toxin(s) from the starfish, Asterias forbesi. Anat. Rec. 138, 340, 1960.
- 2396 CHANLEY, J.D., FRIESS, S.L. and DURANT, R.C. Effects of pressure and muscle loading on the toxic actions of echinoderm saponins in neuromuscular tissues. Toxicol. appl. Pharmacol. 22, 115, 1972.
- 2397 CHANLEY, J.D., KOHN, S.K., NIGRELLI, R.F. and SOBOTKA, H. Further chemical analysis of holothurin, the saponin-like steroid from the sea-cucumber. Part III. Zoologica 40, 99, 1955.
- 2398 CHANLEY, J.D., PERLSTEIN, J., NIGRELLI, R.F. and SOBOTKA, H. Further studies on the structure of holothurin. Ann. N.Y. Acad. Sci. 90, 902, 1960.
- 2399 CHANLEY, J.D., LEDEEN, R., WAX, J., NIGRELLI, R.F. and SOBOTKA, H. Holothurin. I. The isolation, properties and sugar components of holothurin A. J. Am. chem. Soc. 81, 5180, 1959.
- 2400 CLARK, A.H. Echinoderms from the Cocos-Keeling islands. Bull. Raffles Mus., Singapore 22, 53, 1950.
- 2501 CLARK, H.L. The echinoderm fauna of Torres Strait: its composition and its origin. Carnegie Inst., Washington, Publ. (214), p. 155, 1921.
- 2502 CLELAND, J.B. and SOUTHCOTT, R.V. Injuries to Man from Invertebrates in the Australian Region. Commonwealth of Australia: Canberra, p. 222, 1965.
- 2503 COLBY, M. Poisonous marine animals in the Gulf of Mexico. Proc. Trans. Texas Acad. Sci. 26, 62, 1943.
- 2504 COOPER, H.S. What Beche-de-mer is, how it is caught and what is done with it. In, H.S. Cooper, Coral Lands. London, vol. II, p. 106, 1880.
- 2505 CROFT, J.A. and HOWDEN, M.E.H. Isolation and partial characterization of a steroidal saponin from the starfish Patiriella calcar. Comp. Biochem. Physiol. 48B, 535, 1974.
- 2506 CUÉNOT, L. Études morphologiques sur les Echinodermes. Arch. Biol., Paris 11, 313, 1891.
- 2507 CUÉNOT, L. Les échinids: pédicellaires. In, Traité de Zoologie,

Anatomie, Systematique, Biologie. Grasse, P.P. (ed.), Masson & Cie: Paris, vol. 2, p. 131, 1948.

- 2508 DE CLERCQ, M. Aperçu sur les recherches scientifiques effectuées dans le domaine de la toxicologie marine. Les animaux marins toxicophores. Ann. Biol. 3, 429, 1964.
- 2509 DE GROOF, R.C. The effects of the marine toxin holothurin-A on squid axon membrane. Dissertation, Duke Univ., 1974.
- 2510 DE GROOF, R.C. and NARAHASHI, T. The effects of holothurin A on the resting membrane potential and conductance of squid axon. Eur. J. Pharmacol. 36, 337, 1974.
- 2511 DEICHMANN, E. The holothurians of the Gulf of Mexico. In, Gulf of Mexico, Its Origin, Waters, and Marine Life. Galtsoff, P.S. (coord.), U.S. Fish Wildl. Serv., Fish. Bull. (89), p. 381, 1954.
- 2512 DELIA, T.J., HERTEL, L.W. and WITTE, L.W. Characterization of the aglycones of the toxic principles of the sea cucumber Holothuria atra. Toxicon 15, 461, 1977.
- 2513 DETTBARN, W.D., HIGMAN, H.B., BARTELS, E. and PODLESKI, T. Effects of marine toxins on electrical activity and K⁺ efflux on excitable membranes. Biochem. biophys. Acta 94, 472, 1965.
- 2514 DOIG, M.T., III, MARTIN, D.F. and PADILLA, G.M. Marine bioactive agents: chemical and cellular correlates. In, Marine Pharmacognosy. Action of Marine Biotoxins at the Cellular Level. Martin, D.F. and Padilla, G.M. (eds.), Academic: N.Y., p. 1, 1972.
- 2515 DYMSZA, H., SHIMIZU, Y., RUSSELL, F.E. and GRAHAM, H.D. Poisonous marine animals. In, The Safety of Foods. 2nd edit., Graham, H.D. (ed.), Avi Publ.: Westport, Conn., p. 625, 1980.
- 2516 EARLE, K.V. Pathological effects of two West Indian echinoderms. Trans. Roy. Soc. trop. Med. Hyg. 33, 447, 1940.
- 2517 EARLE, K.V. Echinoderm injuries in Nauru. Med. J. Aust. (2), 265, 1941.
- 2518 ELYAKOV, G.B. and PERETOLCHIN, N.V. Cucumariosid-C—a new triterpenic glycoside from Holothuria cucumaria fraudatrix. Khim. Priir. Soedin 6, 637, 1970.
- 2519 ELYAKOV, G.B., ANISIMOV, M.M., PROKOFIEVA, N.G., KUZNETSOVA, T.A. and FRONERT, E.B. Sensitivity of rat marrow cells in culture to the toxic effect of stichoposide A₁ from Stichopus japonicus Selenka. Toxicon 10, 299, 1972.
- 2520 ENDEAN, R. The Cuvierian tubules of Holothuria leucospilota. Q. J. microsc. Sci. 98, 455, 1957.
- 2521 ENDEAN, R. The venomous sea-urchin Toxopneustes pileolus. Med. J. Aust. (1), 320, 1961.
- 2522 ENDEAN, R. A new species of venomous echinoid from Queensland water. Mem. Queensland Mus. 14, 95, 1964.
- 2523 ENDEAN, R. Neurotoxins occurring in marine animals from Australian waters. In, Neurotoxins. Fundamental and Clinical Advances. Chubb, I.W. and Geffen, L.B. (eds.), Adelaide Univ. Union Press: Adelaide, S. Aust., p. 57, 1979.
- 2524 ENDEAN, R. and CHESTER, R.H. Temporal and spatial distribution of Acanthaster planci population

- explosions in the Indo- West Pacific region. Biol. Conserv. 5, 87, 1973.
- 2525 ENDEAN, R. and STABLUM, W. The apparent extent of recovery of reefs of Australia's Great Barrier Reef devastated by the crown-of-thorns starfish. Atoll Res. Bull. (168), 1, 1973.
- 2526 ENDEAN, R. and STABLUM, W. A study of some aspects of the crown-of-thorns starfish (Acanthaster planci) infestations of reefs of Australia's Great Barrier Reef. Atoll Res. Bull. (167), 1, 1973.
- 2527 FAGERLUND, U.H.M. and IDLER, D.R. Marine sterols. V. Isolation of 7, 24 (28) - ergostadien - 3β -ol from starfish. J. Am. chem. Soc. 81, 401, 1959.
- 2528 FÄNGE, R. Toxic factors in starfishes. Sarsia 10, 19, 1963.
- 2529 FARBER, L. and LERKE, P. Studies on the toxicity of Rhodactis howesii (Matamalu). In, Venomous and Poisonous Animals and Noxious Plants of the Pacific Region. Keegan, H.L. and MacFarland, W.F. (eds.), Pergamon: Oxford, p. 67, 1963.
- 2530 FAUST, E.S. Echinodermata. In, Die tierischen Gifte. Wiss. Samm. Natur. Math. Monogr., F. Vieweg Sohn: Braunschweig, Heft 9, 229, 1906.
- 2531 FAUST, E.S. Echinodermata. In, Tierische Gifte. (Handbook exp. Pharm.), Berlin, p. 1923, 1924.
- 2532 FEDER, H.M. Gastropod defensive responses and their effectiveness in reducing predation by starfishes. Ecology 44, 505, 1963.
- 2533 FEDER, H.M. and ARVIDSSON, J. Studies on a sea-star (Marthasterias glacialis) extract responsible for avoidance reactions in a gastropod (Buccinum undatum). Arkiv Zool. 19, 369, 1967.
- 2534 FEDER, H. and CHRISTENSEN, A.M. Aspects of asteroid biology. In, Physiology of Echinodermata. Boolootian, R.A. (ed.), Interscience: N.Y., p. 87, 1966.
- 2535 FEIGEN, G.A., HADJI, L. and CUSHING, J.E. Modes of action and identities of protein constituents in sea urchin toxin. In, Bioactive Compounds from the Sea. Humm, H.J. and Lane, C.E. (eds.), Marcel Dekker: N.Y., vol. 1, p. 37, 1974.
- 2536 FEIGEN, G.A., HADJI, L. and PFEFFER, R.A. Purification, immunological properties, and enzymological behavior of sea urchin toxin. Toxicon 8, 131, 1970 (Abst.); see also 2nd Intern. Symp. Animal Toxins, Tel Aviv, p. 44, 1970.
- 2537 FEIGEN, G.A., SANZ, E. and ALENDER, C.B. Studies on the mode of action of sea urchin toxin-I. Conditions affecting release of histamine and other agents from isolated tissues. Toxicon 4, 161, 1966.
- 2538 FEIGEN, G.A., HADJI, L., PFEFFER, R.A. and MARKUS, G. Studies on the mode of attack of sea urchin toxin on natural and synthetic substrates—I. Conditions determining the formation and isolation of plasma kinins. Physiol. Chem. Physics 2, 309, 1970.
- 2539 FEIGEN, G.A., SANZ, E., TOMITA, J.T. and ALENDER, C.B. Studies on the mode of action of sea urchin toxin-II. Enzymatic and immunological behavior. Toxicon 6, 17, 1968.
- 2540 FISH, C.J. and COBB, M.C. Noxious marine animals of the central and

- western Pacific Ocean. U.S. Fish Wildl. Serv. Res. Rept. (36), 1954.
- 2541 FISHER, A.A. Atlas of Aquatic Dermatology. Grune & Stratton: N.Y., 112p., 1978.
- 2542 FISHER, A.A. and ORRIS, W.L. Aquatic contact dermatitis. Cutis 12, 687, 1973.
- 2543 FLEMING, W.J. and HOWDEN, M.E.H. Partial purification and characterization of a lethal protein from Tripneustes gratilla. Toxicon 12, 447, 1974.
- 2544 FLEMING, W.J., SALATHE, R., WYLLIE, S.G. and HOWDEN, M.E.H. Isolation and partial characterization of steroid glycosides from the starfish Acanthaster planci. Comp. Biochem. Physiol. 53B, 267, 1976.
- 2545 FLURY, F. Über das Aplysiengift. Arch. exp. Pathol. Pharmac. 79, 250, 1915.
- 2546 FOETTINGER, A. Sur la structure des pédicellaires gemmiformes de Aphaerechinus granularis et d'autres échinides. Arch. Biol. 2, 455, 1881.
- 2547 FONTAINE, A.R. The integumentary mucous secretions of the ophiuroid Ophiocomina nigra. J. mar. Biol. Assoc. U.K. 44, 145, 1964.
- 2548 FRÄNKEL, S. and JELLINK, C. Über essbare Holothuriern. Biochem. Z. 185, 389, 1927.
- 2549 FREY, D.G. The use of sea cucumbers in poisoning fishes. Copeia (2), 175, 1951.
- 2550 FRIESS, S.L. Some pharmacological activities of the sea-cucumber neurotoxin. AIBS Bull. 13, 41, 1963.
- 2551 FRIESS, S.L. Mode of action of marine saponins on neuromuscular tissues. Fed. Proc. 31, 1146, 1972.
- 2552 FRIESS, S.L. and DURANT, R.C. Protective interactions of physostigmine and holothurin A at the mammalian neuromuscular junction. Biochem. Pharmac. (Conf. Iss.), p. 166, 1965.
- 2553 FRIESS, S.L. and DURANT, R.C. Blockade phenomena at the mammalian neuromuscular synapse. Competition between reversible anticholinesterases and an irreversible toxin. Toxicol. appl. Pharmacol. 7, 373, 1965.
- 2554 FRIESS, S.L., DURANT, R.C. and CHANLEY, J.D. Further studies on biological actions of steroidal saponins produced by poisonous echinoderms. Toxicon 6, 81, 1968.
- 2555 FRIESS, S.L., CHANLEY, J.D., HUDAK, W.V. and WEEMS, H.B. Interactions of the echinoderm toxin holothurin A and its desulfated derivative with the cat superior cervical ganglion preparation. Toxicon 8, 211, 1970.
- 2556 FRIESS, S.L., DURANT, R.C., CHANLEY, J.D. and FASH, F.J. Role of the sulphate charge center in irreversible interactions of holothurin A with chemoreceptors. Biochem. Pharmac. 16, 1617, 1967.
- 2557 FRIESS, S.L., DURANT, R.C., CHANLEY, J.C. and MEZZETTI, T. Some structural requirements underlying holothurin A interactions with synaptic chemoreceptors. Biochem. Pharmac. 14, 1237, 1965.
- 2558 FRIESS, S.L., STANDAERT, F.G., WHITCOMB, E.R. et al. Some pharmacologic properties of holothurin, an active neurotoxin

- from the sea cucumber. J. Pharm. exp. Therap. 126, 323, 1959.
- 2559 FRIESS, S.L., STANDAERT, F.G., WHITCOMB, E.R. et al. Some pharmacologic properties of holothurin A, a glycosidic mixture from the sea cucumber. Ann. N.Y. Acad. Sci. 90, 893, 1960.
- 2560 FUHRMAN, F.A. Fish eggs. In, Toxic Constituents of Animal Foodstuffs. Academic: N.Y., p. 73, 1974.
- 2561 FUJIWARA, T. On the poisonous pedicellaria of Toxopneustes pileolus (Lamarck). Annontes zool. Jpn. 15, 62, 1935.
- 2562 FÜRTH, O. VON Vergleichende chemische Physiologie der niederen Tiere. Gustav Fischer: Jena, p. 304, 1903.
- 2563 GASTEIGER, E.L., HAAKE, P.C. and GERGEN, J.A. An investigation of the distribution and function of homarine (N-methyl picolinic acid). Ann. N.Y. Acad. Sci. 90, 622, 1960.
- 2564 GILLET, K. and MC NEILL, F. The Great Barrier Reef and Adjacent Isles. Coral Reef Press: Sydney, Aust., 209p., 1962.
- 2565 GIUNIO, P. Otrovne ribe. Higijena (Belgrade) 1, 282, 1948.
- 2566 GOAD, L.J., RUBINSTEIN, I. and SMITH, A.G. The sterols of echinoderms. Proc. Roy. Soc. London B 180, 223, 1972.
- 2567 GOLDSMITH, E.D., OSBURG, H.E. and NIGRELLI, R.F. The effect of holothurin, a steroid saponin of animal origin, on the development of the fruit-fly. Anat. Rec. 130, 411, 1958.
- 2568 GREEN, G. and BAKUS, G.J. Toxicidad en esponjas y holoturias. An. Cent. Cienc. del Mar. Limnol., U. Nac. Auton. Mex. 2, 61, 1975.
- 2569 GUPTA, K.C. and SCHEUER, P.J. Echinoderm sterols. Tetrahedron 24, 5831, 1968.
- 2570 HABERMEHL, G. Gift-Tiere und ihre Wafen. Eine Einführung für Biologen, Chemiker und Mediziner. Ein Leitfaden für Touristen. Springer-Verlag: Berlin, 1976.
- 2571 HABERMEHL, G. Pharmaceutical aspects of low-molecular venoms from amphibia and echinoderms. Toxicon 5, 269, 1977.
- 2572 HABERMEHL, G. and VOLKWEIN, G. Über Gifte der mittelmeerischen Holothurien. I. Mitteilung. Naturwissenschaften 53, 83, 1968.
- 2573 HABERMEHL, G. and VOLKWEIN, G. Über Gifte der mittelmeerischen Holothurien. II. Die Aglyka der Toxine von Holothuria polii. Liebigs Ann. Chem. 731, 33, 1970.
- 2574 HABERMEHL, G. and VOLKWEIN, G. Aglycones of the toxins from the cuvierian organs of Holothuria forskali and a new nomenclature for the aglycones from Holothurioidae. Toxicon 9, 319, 1971.
- 2575 HABERMEHL, G. ANDRES, H. and MIYAHARA, K. Synthesis of holothurinogenines. 5th Intern. Symp. Animal, Plant, Microbial Toxins, p. 45, Aug. 1976 (Abst.).
- 2576 HALSTEAD, B.W. Animal phyla known to contain poisonous marine animals. In, Venoms. Buckley, E.D. and Porges, N. (eds.), A.A.A.S.: Washington, p. 9, 1956.
- 2577 HALSTEAD, B.W. Dangerous Marine Animals. Cornell Maritime Press: Cambridge, p. 49, 1959.
- 2578 HALSTEAD, B.W. Poisonous and Venomous Marine Animals of the World, Vol. I, Invertebrates. U.S.

Govt. Print. Off.: Washington,
p. 537, 1965.

- 2579 HALSTEAD, B.W. Venomous echinoderms and annelids: starfishes, sea urchins, sea cucumbers, and segmented worms. In, Venomous Animals and Their Venoms. Bucherl, W. and Buckley, E.E. (eds.), Academic: N.Y., p. 418, 1971.
- 2580 HALSTEAD, B.W. Poisonous and Venomous Marine Animals of the World. Rev. edit., Darwin Press: Princeton, N.J., 238p., 1978.
- 2581 HALSTEAD, B.W. and RUSSELL, F.E. Toxic marine organisms. In, Handbook of Biological Data. Spector, W.S. (ed.), F.A.S.E.B.: Washington, p. 4214, 1956.
- 2582 HALSTEAD, B.W., CARSCALLEN, L.J. and RUSSELL, F.E. Animal toxins. Part III. Marine organisms. In, Biology Data Book. Altman, P.L. and Dittmer, D.S. (eds.), F.A.S.E.B.: Washington, p. 36, 1964.
- 2583 HAMANN, O. Beitrage zur Histologie der Echinodermen. Jena. Z. Naturwiss. 21, 91, 1887.
- 2584 HASHIMOTO, Y. [Marine Toxins.] Univ. Tokyo Press: Tokyo, 1977.
- 2585 HASHIMOTO, Y. Marine Toxins and Other Bioactive Metabolites. Jpn. Sci. Soc. Press: Tokyo, 1979.
- 2586 HASHIMOTO, Y. and YASUMOTO, T. Confirmation of saponin as a toxic principle of starfish. Bull. Jpn. Soc. scient. Fish. 26, 1132, 1960.
- 2587 HASHIMOTO, Y., YASUMOTO, T. and NAKAMURA, K. A new saponin, holothurin B, isolated from sea-cucumber, Holothuria vagabunda and Holothuria tubrica. Agric. Biol. Chem. 31, 7, 1967.
- 2588 HEILBRUNN, L.W., CHAET, A.B., DUNN, A. and WILSON, W.L. Antimitotic substance, from ovaries. Biol. Bull. 106, 158, 1954.
- 2589 HENRI, V. and KAYALOF, E. Étude des toxines contenues dans les pédicellaires chez les Oursins. C.R. Soc. Biol. 60, 884, 1906.
- 2590 HOPPE-SEYLER, F.A. Über das Homarin, eine bisher unbekannte tierische Base. Hoppe-Seyler Z. 222, 105, 1933.
- 2591 HÖRSTADIUS, S. Über die Determination des Keimes bei Echinodermen. Acta zool., Stockholm 9, 1, 1928.
- 2592 HYMAN, L.H. The Invertebrates: Echinodermata. McGraw-Hill: N.Y., 763p., 1955.
- 2593 IDYLL, C.P. Marine sciences. Fed. Proc. 31, TF121, 1972.
- 2594 IKEGAMI, S., KAMIYA, Y. and TAMURA, S. Isolation and characterization of spawning inhibitors in ovaries of the starfish, Asterias amurensis. Agric. Biol. Chem. 36, 1087, 2005, 1972.
- 2595 IKEGAMI, S., KAMIYA, Y. and TAMURA, S. Isolation and structure of a new steroid, Asterosapogenine I, from Asterosaponins A and B+. Agric. Biol. Chem. 36, 1777, 1972.
- 2596 IKEGAMI, Y., KAMIYA, Y. and TAMURA, S. A new sterol from Asterosaponins A and B. Tetrahedron Lett. 1601, 1972.
- 2597 IKEGAMI, S., KAMIYA, Y. and TAMURA, S. A novel steroid, 3 β , 6 α , 23 β -trihydroxy-5 α -cholest-9(11)-EN, from asterosaponins. Tetrahedron Lett. 3725, 1972.
- 2598 IKEGAMI, S., KAMIYA, Y. and TAMURA, S. Structures of two C-27

- steroids constituting asterosaponins A and B+. Agric. Biol. Chem. 37, 367, 1973.
- 2599 JAKOWSKA, S. and NIGRELLI, R.F. The effects of orally administered holothurin in mice. Anat. Rec. 137, 367, 1960.
- 2600 JAKOWSKA, S., NIGRELLI, R.F., MURRAY, P.M. and VELTRI, A.M. Hemopoietic effects of holothurin, a steroid saponin from the sea cucumber, Actinopyga agassizi, in Rana pipiens. Anat. Rec. 132, 459, 1958.
- 2601 JENNINGS, R.K. Basic biochemistry to serve the navy. Naval Res. Rev. 20, 32, 1967.
- 2602 JOHNSTON, D.G. and BURGER, W.D. Injury and disease of scuba and skin divers. Postgrad. Med. 49, 134, 1971.
- 2603 KAISER, E. and MICHL, H. Die Biochemie der tierischen Gifte. F. Deutcke: Wien, p. 77, 1958.
- 2604 KAMIYA, Y., IKEGAMI, S. and TAMURA, S. A novel steroid, 3 α , 6 α , 15 α , 24 β -tetrahydroxy-5 α -cholestane from asterosaponins. Tetrahedron Lett. 655, 1974.
- 2605 KAYALOF, E. Étude des toxines de pédicellaires chez les Oursins. Thesis, Fac. Med. Univ. Geneve, 57p., 1906.
- 2606 KELECOM, A., DALOZE, D. and TURSCH, B. Chemical studies of marine invertebrates. Tetrahedron 32, 2313, 1976.
- 2607 KIERNIK, E. Beitrag zur Histologie der Pedicellarien der Echiniden, insbesondere der Muskeln. Zool. Anz. 29, 610, 1906.
- 2608 KIMURA, A. and NAKAGAWA, H. Action of an extract from the sea urchin Toxopneustes pileolus on isolated smooth muscle. Toxicon 18, 689, 1980.
- 2609 KIMURA, A., HAYASHI, H. and KURAMOTO, M. Studies of urchin-toxin. Separation, purification and pharmacological actions of toxic substances. Jpn. J. Pharmacol. 25, 109, 1975.
- 2610 KINNEL, R., DUGGAN, A.J., EISNER, T. and MEINWALD, J. Panacene: an aromatic broncalene from a sea hare (Aplysia brasiliana). Tetrahedron Lett. 44, 3913, 1977.
- 2611 KITIGAWA, I., SUGAWARA, T. and YOSHIOKA, I. Structure of holotoxin A, a major antifungal glycoside of Stichopus japonicus selenka. Tetrahedron Lett. 47, 411, 1974.
- 2612 KITIGAWA, I., SUGAWARA, T., YOSHIOKA, I. and KUNYAMA, K. Holotoxins of Stichopus sp. Chem. Pharm. Bull. 24, 275, 1976.
- 2613 KLAUS, G. Pharmaceuticals from the oceans. Drug Cosmetic Ind. 103, 48, 1968.
- 2614 KOPSTEIN, P.F. Die giftigen Tiere von Niederländisch-Ost-Indien. Natuur. Tijdschr. Ned.-Indie 86, 123, 1926.
- 2615 KORNALIK, F. [Animal Toxins.] State Public Health: Prague, 288p., 1967.
- 2616 LAIGRET, J. and BAGNIS, R. Traumatismes, envenimations et intoxications alimentaires causés par les animaux aquatiques. In, Encyclopedie Médicochirurgicale. Begon, C. (ed.), Editions Techniques: Paris, vol. 2, p. 1, 1969.
- 2617 LANE, C.E. Toxins of marine origin. Ann. Rev. Pharmacol. 8, 409, 1968.

- 2618 LASLEY, B.J. and NIGRELLI, R.F. The effect of crude holothurin on leucocyte phagocytosis. Toxicon 8, 301, 1970.
- 2619 LASSABLIÈRE, M.P. Influence des injections intraveineuses de subératine sur la résistance globulaire. C.R. Soc. Biol. 61, 600, 1906.
- 2620 LAVOIE, M.E. How sea stars open bivalves. Biol. Bull. 111, 114, 1956.
- 2621 LE MARE, D.W. Poisonous Malayan fish. Med. J. Malaya 7, 1, 1952.
- 2622 LEVRAT, E. Les réactions cutanées vis-à-vis de certains animaux marins. Toulouse Méd. 28, 194, 1927.
- 2623 LEVY, R. Sur les propriétés hémolytiques des pédicellaires de certains Oursins réguliers. C.R. Acad. Sci. 181, 690, 1925.
- 2624 LEWINSOHN, C. Injuries caused by marine animals. Dapim Refuim 21, 704, 1962.
- 2625 LINAWEAVER, P.G. Toxic marine life. Milit. med. 132, 437, 1967.
- 2626 LINSTOW, O.V. Die Giftthiere und ihre Wirkung auf den Menschen. August Hirschwald: Berlin, p. 52, 1894.
- 2627 LOISEL, G. Les poisons des glandes genitales. 1^{er} note: recherches et experimentation chez l'oursin. C.R. Soc. Biol. 55, 1329, 1903.
- 2628 LOISEL, G. Recherches sur les poisons genitaux de differents animaux. C.R. Acad. Sci. 139, 227, 1904.
- 2629 LUDWIG, H. Dr. H.G. Bronn's Klassen und Ordnungen des Thierreichs, wissenschaftlich dargestellt: in Wort und Bild. Echinodermen (Stachelhautre). C.F. Winter'sche Verlagshandlung: Leipzig, vol. 2, 1901, 1902, 1904.
- 2630 MACKIE, A.M. Avoidance reactions of marine invertebrates to either steroid glycosides of starfishes or synthetic surface active agents. J. exp. mar. Biol. Ecol. 5, 63, 1970.
- 2631 MACKIE, A.M. and TURNER, A.B. Partial characterization of a biologically active steroid glycoside isolated from starfish Marthasterias glacialis. Biochem. J. 117, 543, 1970.
- 2632 MACKIE, A.M., LASKER, R. and GRANT, P.T. Avoidance reactions of the mollusc Buccinum undatum to saponin-like surface-active substances in extracts of the starfish Asterias rubens and Marthasterias glacialis. Comp. Biochem. Physiol. 26, 415, 1968.
- 2633 MANO, Y. Factors involved in cyclic protein synthesis in sea urchin cells during early embryogenesis. J. Biochem. 65, 483, 1969.
- 2634 MARETIĆ, Z. [Dangerous and poisonous animals in the Adriatic Sea] Nav. Lib. 22, 157, 1969.
- 2635 MARETIĆ, Z. [Venomous Animals and Poisonous Animals of the Adriatic Sea.] J.A.Z.U.: Zagreb, Yugoslavia, 1975.
- 2636 MATSUDA, H. and TOMIIE, Y. The structure of aplysin-20. Chem. Commun. p. 898, 1967.
- 2637 MATSUDA, H., TOMIIE, Y., YAMAMURA, S. and HIRATA, Y. The structure of aplysin-20. J. Chem. Soc. Chem. Commun. 898, 1967.
- 2638 MATSUNO, T. and IBA. Studies on the saponin of sea cucumber. J. Pharm. Soc. Jpn. 86, 637, 1966.

- 2639 MATSUNO, T. and YAMANOUCHI, T. A new triterpenoid sapogenin of animal origin (sea cucumber). Nature 191, 75, 1961.
- 2640 MEBS, D. Chemistry of animal venoms, poisons and toxins. Experientia 29, 1328, 1973.
- 2641 MENDES, E.G. Ulteriores experimentos sobre o principio colinérgico em pedicelárias. Cienc. e Cult. 15, 275, 1963.
- 2642 MENDES, E.G. The pedicellariae and the settling of pelagic larvae of sessile animals on sea urchins. An. Acad. Brasileira Ciências, Rio de Janeiro 37, 215, 1965.
- 2643 MENDES, E.G., ABBUD, L. and MIJI, S. Cholinergic action of homogenates of sea urchin pedicellariae. Science 139, 408, 1963.
- 2644 MILLOT, N. Echinoderm Biology. Academic: London, 240p., 1967.
- 2645 MINTON, S.A. Spines and stings and sea snakes. Consultant 17, 45, 1977.
- 2646 MITSUKURI, K. Studies on the actinopodous Holothurioidea. J. colloid. Sci. (Tokyo) 29, 1, 1972.
- 2647 MONTGOMERY, D.H. Responses of two haliotid gastropods (Mollusca) Haliotis asinensis and Haliotis rufescens to the forcipulate asteroids (Echinodermata) Pycnopodia helianthoides and Pisaster ochraceus. Veliger 9, 359, 1967.
- 2648 MORTENSON, T. A Monograph of the Echinoidea. 5 vols., C.A. Reitzel: Copenhagen, 1928-1951.
- 2649 MORU, J. Contribution à l'étude de la toxicité des animaux marins. Thesis, Fac. Med. Paris, 47p., 1934.
- 2650 NAKAZAWA, S. Dissociation of animal tissues by a toxic substance obtained from starfish. Naturwissenschaften 47, 327, 1960.
- 2651 NICOLS, D. Echinoderms. Hutchinson Univ. Library: London, 200p., 1962.
- 2652 NIELLY, M. Animaux et végétaux nuisibles. In, Eléments de Pathologie Exotique. Nielly, M. (ed.), Delahaye & Lecrosnier: Paris, p. 709, 1881.
- 2653 NIGRELLI, R.F. The effects of holothurin on fish, and mice with sarcoma 180. Zoologica 37, 89, 1952.
- 2654 NIGRELLI, R.F. Biochemistry and pharmacology of compounds derived from marine organisms. Ann. N.Y. Acad. Sci. 90, 615, 1960.
- 2655 NIGRELLI, R.F. and JAKOWSKA, S. Effects of holothurin, a steroid saponin from the Bahamian sea cucumber (Actinopyga agassizi) on various biological systems. Ann. N.Y. Acad. Sci. 90, 884, 1960.
- 2656 NIGRELLI, R.F. and ZAHL, P.A. Some biological characteristics of holothurin. Proc. Soc. exp. Biol. Med. 81, 379, 1952.
- 2657 NIGRELLI, R.F., CHANLEY, J.D., KOHN, S.K. and SOBOTKA, H. The chemical nature of holothurin, a toxic principle from the sea-cucumber (Echinodermata: Holothurioidea). Zoologica 40, 47, 1955.
- 2658 NIGRELLI, R.F., STEMPIEN, M.F., JR., RUGGIERI, G.D., LIGUORI, V.R. and CECIL, J.T. Substances of potential biomedical importance from marine organisms. Fed. Proc. 26, 1197, 1967.

- 2659 NISHIBORI, K. Isolation of echinochrome A from the spines of the sea urchin, Diadema setosum (Leske). Nature 184, 1234, 1959.
- 2660 O'CONNELL, M.G. The fine structure of venom gland cells in globiferous pedicellariae from the purple sea urchin, Strongylocentrotus purpuratus (Stimpson). Thesis, Long Beach State College, 1971.
- 2661 OKADA, K. Biological studies on the practical utilities of poisonous marine invertebrates. I. A preliminary note on the toxic substance detected in the trumpet sea urchin, Toxopneustes pileolus. Rec. Oceanogr. Wks. 2, 49, 1955.
- 2662 OKADA, K., HASHIMOTO, T. and MIYAUCHI, Y. A preliminary report on the poisonous effect of the Toxopneustes toxin upon the heart of oyster. Bull. mar. Biol. Sta. Asamushi, Tohoku Univ. 7, 133, 1955.
- 2663 OSHIMA, H. [Poisonous sea-urchin] Dobutsugaku Zasshi 27, 605, 1915.
- 2664 OWELLEN, R.J., OWELLEN, R.G., GOROG, M.A. and KLEIN, D. Cytolytic saponin fraction from Asterias vulgaris. Toxicon 11, 319, 1973.
- 2665 PARADICE, W.E.J. Injuries and lesions caused by the bites of animals and insects. Med. J. Aust. (2), 650, 1924.
- 2666 PARKER, C.A. Poisonous qualities of the star-fish. Zoologist 5, 214, 1831.
- 2667 PARNAS, I. and RUSSELL, F.E. Effects of venoms on nerve, muscle and neuromuscular junction. In, Animal Toxins. Russell, F.E. and Saunders, P.R. (eds.), Pergamon: Oxford, p. 401, 1967.
- 2668 PAWLOWSKY, E.N. Gifttiere und ihre Giftigkeit. Gustav Fischer: Jena, p. 32, 406, 479, 1927.
- 2669 PEARSON, R.G. and ENDEAN, R. A preliminary study of the coral predator Acanthaster planci (L.) (Asteroidea) on the Great Barrier Reef. Fish. Notes, Dept. Harbours Mar. 3, 27, 1969.
- 2670 PERES, J.M. Recherches sur les pédicellaires glandulaires de Sphaerechinus granularis (Lamarck). Arch. Zool. exp. gén. 86, 118, 1950.
- 2671 PERRIER, E. Recherches sur les pédicellaires et les ambulacres des astéries et des oursins. Ann. Sci. nat. (Zool.) 13, 5, 1870.
- 2672 PHILLIPS, C. and BRADY, W.H. Sea Pests: Poisonous or Harmful Sea Life of Florida and the West Indies. Univ. Miami Press: Miami, 78p., 1953.
- 2673 PHISALIX, C. Venins et animaux venimeux dans la série animale. Rev. scient., Paris S8:97, 195, 329, 1897.
- 2674 PHISALIX, M. Animaux Venimeux et Venins. 2 vols., Masson & Cie: Paris, vol. 1, p. 77, 1922.
- 2675 POPE, E.C. Some sea animals that sting and bite. Aust. Mus. Mag. 9, 164, 1947.
- 2676 POPE, E.C. Some noxious marine invertebrates from Australian seas. Proc. First Intern. Convention Life Saving Techniques, Part III, Sci. Sect., Bull. Post Grad. Comm. Med., Univ. Sydney, Australia, p. 91, 1963.

- 2677 POPE, E.C. A stinging by a crown-of-thorns starfish. Aust. nat. Hist. 14, 350, 1964.
- 2678 POPE, E.C. Venomous sea urchin in Sydney harbour (*Toxopneustes pileolus*). Aust. nat. Hist. 15, 289, 1967.
- 2679 POPE, E.C. Venomous starfish in Sydney harbour. Aust. nat. Hist. 16, 36, 1968.
- 2680 PROUHO, H. Du role des pedicellaires gemmiformes des oursins. C.R. Acad. Sci. 111, 62, 1890.
- 2681 PUGH, W.S. Report of a case of poisoning by sea urchin. U.S. Navy med. Bull. 7, 254, 1913.
- 2682 QUAGLIO, N.D., NOLAN, S.F., VELTRI, A. et al. Effects of holothurin on survival and regeneration of planarians. Anat. Rec. 123, 604, 1957.
- 2683 RANDALL, J.E., SCHROEDER, R.E. and STARCK, W.A., II. Notes on the biology of the echinoid *Diodema antillarum*. Caribb. J. Sci. 4, 421, 1964.
- 2684 RIO, G.J., RUGGIERI, G.D., STEMPIEN, M.F., JR. and NIGRELLI, R.F. Saponin-like toxin from the giant sunburst starfish, *Pycnopodia helianthoides*, from the Pacific Northwest. Am. Zool. 3, 544, 1963.
- 2685 RIO, G.J., STEMPIEN, M.F., JR., NIGRELLI, R.F. and RUGGIERI, G.D. Echinoderm toxins I. Some biochemical and physiological properties of toxins from several species of asteroidea. Toxicon 3, 147, 1965.
- 2686 ROCHA, G. and FRAGA, S. Sea urchin granuloma of the skin. Arch. Derm. Syph. 85, 406, 1962.
- 2687 ROUGHLEY, T.C. Wonders of the Great Barrier Reef. Charles Scribner's Sons: N.Y., 282p., 1947.
- 2688 RUGGIERI, G.D. Echinoderm toxins-II. Animalizing action in sea urchin development. Toxicon 3, 157, 1965.
- 2689 RUGGIERI, G.D. Drugs from the sea. Marine organisms with novel chemical constituents are excellent sources of new drugs. Science 194, 491, 1976.
- 2690 RUGGIERI, G.D. and NIGRELLI, R.F. The effects of holothurin, a steroid saponin from the sea cucumber, on the development of the sea urchin. Zoologica 45, 1, 1960.
- 2691 RUGGIERI, G.D. and NIGRELLI, R.F. Effects of extracts of the red web starfish, *Patiria miniata*, on sea urchin eggs. Am. Zool. 4, 431, 1964.
- 2692 RUGGIERI, G.D. and NIGRELLI, R.F. Effects of extracts of the sea star *Acanthaster planci* on the developing sea urchin. Am. Zool. 6, 592, 1966.
- 2693 RUGGIERI, G.D. and NIGRELLI, R.F. Animalization of *Arbacia punctulata* larvae by extracts of the sea cucumber, *Holothuria edulis*. Am. Zool. 6, 593, 1966.
- 2694 RUGGIERI, G.D. and NIGRELLI, R.F. Effects of extracts of the sea star *Acanthaster planci* on the developing sea urchin. Am. Soc. Zool. 380, 592, 1973.
- 2695 RUGGIERI, G.D., NIGRELLI, R.F. and STEMPIEN, R.F., JR. Some biological and physiological properties of extracts from several echinoderms. 2nd Intern. Symp. Animal Toxins, Tel Aviv, p. 75, 1970.

- 2696 RUSSELL, F.E. Marine toxins and venomous and poisonous marine animals. In, Advances in Marine Biology. Russell, F.S. (ed.), Academic: London, vol. 3, p. 283, 1965.
- 2697 RUSSELL, F.E. Venomous and poisonous marine animals and their toxins. First Inter-Amer. Naval Res. Conf., San Juan, Puerto Rico, 37p., 1965.
- 2698 RUSSELL, F.E. Toxic marine animals. Nav. Res. Rev. 19, 20, 1966.
- 2699 RUSSELL, F.E. Comparative pharmacology of some animal toxins. Fed. Proc. 26, 1206, 1967.
- 2700 RUSSELL, F.E. Pharmacology of animal venoms. Clin. Pharmacol. Therap. 8, 849, 1967.
- 2701 RUSSELL, F.E. Pharmacology of toxins of marine origin. In, International Encyclopedia of Pharmacology and Therapeutics. Raskova, H. (ed.), Pergamon: Oxford, Sect. 71, vol. 2, p. 3, 1971.
- 2702 RUSSELL, F.E. Poisonous Marine Animals. T.F.H. Publ.: Neptune City, N.J., 176p., 1971.
- 2703 RUSSELL, F.E. Venomous animal injuries. In, Current Problems in Pediatrics. Gluck, L. (ed.), Year Book Medical Publ.: Chicago, vol. III, p. 1, 1973.
- 2704 RUSSELL, F.E. Poisonous and venomous marine animals and their toxins. Ann. N.Y. Acad. Sci. 245, 57, 1975.
- 2705 RUSSELL, F.E. Venomous bites and stings. In, The Merck Manual. 13th edit., Berkow, R. (ed.), Merck, Sharp & Dohme: Rathway, N.J, p. 1982, 1977.
- 2706 RUSSELL, F.E. Hazardous marine life. Part I: Venomous marine animals. Hyperb. Underseas Med. 1, 1, 1978.
- 2707 RUSSELL, F.E. Venom poisoning: snakes, arthropods and marine animals. Emergency Medicine Symposium III, Univ. Calif., San Diego, 1978- .
- 2708 RUSSELL, F.E. and BRODIE, A.F. Venoms. In, Encyclopedia of Chemistry. Hampel, C.A. and Hawley, G.G. (eds.), VanNostrand Reinhold Co.: N.Y., p. 1139, 1973.
- 2709 RUSSELL, F.E. and CARLSON, R.W. Marine organisms. In, Biology Data Book. Altman, P.L. and Dittmer, D.S. (eds.), F.A.S.E.B.: Washington, p. 726, 1973.
- 2710 SARASIN, C.F. and SARASIN, P.B. Über einen Lederigel aus dem Hafen Trincomalie (Ceylon) und seinen Giftapparat. Zool. Anz. 9, 80, 1886.
- 2711 SARASIN, P.B. and SARASIN, C.F. Über die Anatomie der Echinuriden und die Phylogenie der Echinodermen. Erg. naturw. Forsch. Ceylon 3, 84, 1888.
- 2712 SAVILLE KENT, W. The Great Barrier Reef of Australia. W.H. Allen Co.: London, 387p., 1900.
- 2713 SAWANO, E. and MITSUGI, K. Toxic action of the stomach extracts of the starfishes on the heart of the oyster. Sci. Rept. Tohoku Univ. Ser. 4, (1), 7, 1932.
- 2714 SCHEUER, P.J. The chemistry of toxins isolated from some marine organisms. Fortschr. Chem. org. Naturst. 22, 265, 1964.
- 2715 SCHEUER, P.J. Toxins from marine invertebrates. Naturwissenschaften 58, 549, 1971.

- 2716 SCHEUER, P.J. Recent developments in the chemistry of marine toxins. In, Toxins of Animal and Plant Origin. DeVries, A. and Kochva, E. (eds.), Gordon & Breach: London, vol. 2, p. 545, 1972.
- 2717 SCHEUER, P.J. Chemistry of Marine Natural Products. Academic: N.Y., 1973.
- 2718 SCHEUER, P.J. Chemical communication of marine invertebrates. BioScience 27, 664, 1977.
- 2719 SCHEUER, P.J., editor. Marine Natural Products: Chemical and Biological Perspectives. 4 vols., Academic: N.Y., 1978-1981.
- 2720 SEURAT, L.G. Présence de l'Astrospartus arborescens (Rondelet) dans la baie de Castiglione. Sta. exp. Aquic. Pêche Castiglione 1932, 137, 1934.
- 2721 SHIMADA, S. Antifungal steroid glycoside from sea cucumber. Science 163, 1462, 1969.
- 2722 SHIMIZU, Y. Antiviral substances in starfish. Experientia 27, 1188, 1971.
- 2723 SHIMIZU, Y. Characterization of an acid hydrolysis product of starfish toxins as a 5 α -pregane derivative. J. Am. chem. Soc. 94, 4051, 1972.
- 2724 SINGH, H.T. Studies on the distribution biosynthesis and function of steroidal saponins in echinoderms. Comp. Biochem. Physiol. 56 (1B), 9, 1977.
- 2725 SKORIKOW, A.S. Echiurini, sans-famille des Gephyrea armata. Ann. Mus. Z. Acad. St. Petersb. 14, 1909.
- 2726 SLADEN, W.P. On a remarkable form of pedicellaria, and the functions performed thereby; together with general observations on the allied forms of this organ in the Echinidae. Ann. Mag. nat. Hist. 6, 101, 1880.
- 2727 SMITH, D.S.H., TURNER, A.B. and MACKIE, A.M. Marine steroids. Part 1. Structures of the principal aglycones from the saponins of the starfish, Marthasterias glacialis. J. chem. Soc., Perkin Trans. 16, 1745, 1973.
- 2728 SMITH, R.O. Survey of the fisheries of the former Japanese Mandated Islands. Fish. Leaflet, U.S. Fish Wildl. Serv. (273), 105p., 1947.
- 2729 SOBOTKA, H. Comparative biochemistry of marine animals. BioScience 15, 583, 1965.
- 2730 SOBOTKA, H. Structure et action de l'holothurine saponine stéroïde animale. Bull. Soc. Chim. biol. 47, 169, 1965.
- 2731 SOBOTKA, H., FRIESS, S.L. and CHANLEY, J.D. Physiological effects of holothurin, a saponin of animal origin. In, Comparative Neurochemistry. Richeter, D. (ed.), Macmillan: N.Y., p. 471, 1964.
- 2732 SOROKIN, M. Medical hazards of the coral reef. Trans. Roy. Soc. trop. Med. Hyg. 69, 94, 1975.
- 2733 SOUTHCOTT, R.V. The neurologic effects of noxious marine creatures. In, Contemporary Neurology Series. Hornabrook, R.W. (ed.), F.A. Davis: Philadelphia, Vol. 12, p. 165, 1975.
- 2734 SOUTHCOTT, R.V. Marine envenomation and intoxication in man. In, Neurotoxins. Fundamental and Clinical Advances. Chubb, I.W. and Geffen, L.D. (eds.), Adelaide Univ. Union Press: Adelaide, Aust., p. 75, 1978.

- 2735 SOUTHCOTT, R.V. Marine toxins. In, Handbook of Clinical Neurology. Vinken, P.J. and Bruyn, G.W. (eds.), Elsevier/North-Holland: Amsterdam, vol. 37, part 2, p. 2/, 1979.
- 2736 STRONG, R.P. Poisonous arthropods, fish and coelenterates. In, Stitt's Diagnosis, Prevention and Treatment of Tropical Diseases. Strong, R.P. (ed.), P. Blakiston's Son & Co.: Philadelphia, vol. 2, p. 1538, 1944.
- 2737 STYLES, T.J. Effect of holothurin on Trypanosoma lewisi infections in rats. J. Protozool. 17, 196, 1970.
- 2738 SULLIVAN, T.D. and NIGRELLI, R.F. The anti-tumorous action of biologics of marine origin, I. Survival of Swiss mice inoculated with Krebs-2 ascites tumor and treated with holothurin, a steroid saponin from the sea cucumber, Actinopyga agassizi. Proc. Am. Assoc. Cancer Res. 2, 151, 1956.
- 2739 SULLIVAN, T.D., LADUE, K.T. and NIGRELLI, R.F. The effects of holothurin, a steroid saponin of animal origin, on Krebs-2 ascites tumors in Swiss mice. Zoologica 40, 49, 1955.
- 2740 SWAN, J.G. Fatal injury inflicted by a starfish. Bull. U.S. Fish. Comm. 7, 34, 1889.
- 2741 TAFT, C.H. Poisonous marine animals. Texas Rept. Biol. Med. 3, 339, 1945.
- 2742 TALIZIN, F.F. [Poisonous Animals of the Land and Sea.] Moscow, p. 15, 1970.
- 2743 TASCHENBERG, O. Die Giftigen Tiere. Ferdinand Enke: Stuttgart, 1909.
- 2744 TÉMIME, P. Les lésions cutanées causées par les piquants d'Oursins. Etude clinique, histologique et expérimentale. Presse med. 61, 1509, 1953.
- 2745 THRON, C.D. Hemolysis by holothurin A, digitonin, and quillaia saponin: estimates of the required cellular lysin uptakes and free lysin concentrations. J. Pharm. exp. Therap. 145, 194, 1964.
- 2746 THRON, C.D., DURANT, R.C. and FRIESS, S.L. Neuromuscular and cytotoxic effects of holothurin A and related saponins at low concentration levels. III. Toxicol. appl. Pharmacol. 6, 182, 1964.
- 2747 THRON, C.D., PATTERSON, R.N. and FRIESS, S.L. Further biological properties of the sea cucumber toxin holothurin A. Toxicol. appl. Pharmacol. 5, 1, 1963.
- 2748 TURNER, A.B., SMITH, D.S.H. and MACKIE, A.M. Characterization of the principal steroidal saponins of the starfish Marthasterias glacialis: structures of the aglycones. Nature 233, 209, 1971.
- 2749 TWEEDIE, M.W.F. Poisonous Animals of Malaya. Malaya Publ. House: Singapore, 90p., 1941.
- 2750 UNGER, H. Experimentelle und histologische Untersuchungen über Wirkfaktoren aus dem Nervensystem von Asterias (Marthasterias glacialis) (Asteroidea, Echinodermata). Zool. Jahrb. Physiol. 69, 481, 1962.
- 2751 UTINOMI, H. Coloured Illustrations of Sea Shore Animals of Japan. Hoikusha: Osaka, 167p., 1958.
- 2752 VAN DER HYDE, H.C. On the Physiology of Digestion, Respiration and Excretion in Echinoderms. Amsterdam, 1922.

- 2753 VAN THOAI, N. and ROCHE, J. Phosphagens of marine animals. Ann. N.Y. Acad. Sci. 90, 923, 1960.
- 2754 VASSEROT, J. Ecological significance of venomous Echinodermata. Bull. Soc. Zool. Fr. 101, 1033, 1976.
- 2755 VERRILL, A.E. The Bermuda Islands. Part V, characteristic life of the Bermuda coral reefs. Trans. Conn. Acad. Arts Sci. 12, 204, 1907.
- 2756 VON UEXKÜLL, J. Ueber Reflexe bei den Seeigeln. Z. Biol. 2, 34, 298, 1896.
- 2757 VON UEXKÜLL, J. Die Physiologie der Pedicellarian. Z. Biol. Ser. 2, 37, 344, 1899.
- 2758 WAITE, C.L. Medical problems of an underwater demolition team. U.S. Armed Forces med. J. 2, 1317, 1951.
- 2759 WALL, M.E., KRIDER, M.M., ROTHMAN, E.S. and EDDY, C.R. Steroidal sapogenins. I. Extraction, isolation, and identification. J. biol. Chem. 198, 533, 1952.
- 2760 WELSH, J.H. Composition and mode of action of some invertebrate venoms. Ann. Rev. Pharmacol. 4, 293, 1964.
- 2761 WELSH, J.H. Neurohumors and neurosecretion. In, Physiology of Echinodermata. Booloottian, R.A. (ed.), Interscience: N.Y., p. 545, 1966.
- 2762 WESTPHAL, U. Interactions between steroids and proteins. In, Mechanisms of Action of Steroid Hormones. Vilee, G.A. and Engel, L.L. (eds.), Pergamon: London, p. 33, 1961.
- 2763 WHITLEY, G.P. Dangerous Australian fishes. Proc. First Intern. Convention Life Saving Techniques, Part III, Sci. Sect., Bull. Post Grad. Comm. Med., Univ. Sydney, Australia, 1963.
- 2764 WHITLEY, G.P. and BOARDMAN, W. Marine animals from Low Isles, Queensland. Aust. Mus. Mag. 3, 330, 1929.
- 2765 WOLFF, M. Die Ausdehnung des Gebietes der giftigen Miessmuscheln und der sonstigen giftigen Seethiere in Wilhelmshaven. Virchows Arch. 104, 180, 1886.
- 2766 YAMAMURA, S. and HIRATA, Y. Structures of aplysin and aplysinol, naturally occurring bromocompounds. Tetrahedron 19, 1485, 1963.
- 2767 YAMANOUCHI, T. Notes on the behavior of the holothurian Caudina chilensis (J. Muller). Sci. Rept. Res. Inst. Tohoku Univ., (Biol.) 4, 73, 1929.
- 2768 YAMANOUCHI, T. [Study of poisons contained in holothurians.] Teikoku Gakushuin Hokoku 17, 73, 1942.
- 2769 YAMANOUCHI, T. On the poison contained in Holothuria vagabunda. Folia Pharmacol. Jpn. 38, 115, 1943.
- 2770 YAMANOUCHI, T. Distribution of poison in the body of Holothuria vagabunda. Zool. Mag., Tokyo 55, 87, 1943.
- 2771 YAMANOUCHI, T. On the poisonous substance contained in holothurians. Publ. Seto mar. Biol. Lab. 4, 184, 1955.
- 2772 YASUMOTO, T. and HASHIMOTO, Y. Properties and sugar components of asterosaponin A isolated from starfish. Agric. Bio. Chem. 29, 804, 1965.

2773 YASUMOTO, T. and HASHIMOTO, Y.
Properties of asterosaponin B isolated from a star-fish *Asterias amurensis*. Agric. Biol. Chem. 31, 368, 1967.

2774 YASUMOTO, T., NAKUMURA, K. and HASHIMOTO, Y. A new saponin, holothurin B, isolated from sea-cucumber, *Holothuria vagabunda* and *Holothuria lubrica*. Agric. Biol. Chem. 31, 7, 1967.

2775 YASUMOTO, T., TANAKA, M. and HASHIMOTO, Y. Distribution of saponins in echinoderms. Bull. Jpn. Soc. scient. Fish. 32, 673, 1966.

2776 YASUMOTO, T., WATANABE, T. and HASHIMOTO, Y. Physiological activities of starfish saponin. Bull. Jpn. Soc. scient. Fish. 30, 357, 1964.

2777 ZLOTKIN, E. Chemistry of animal venoms. Experientia 29, 1453, 1973.

CHAPTER VII

MOLLUSCA

(Snails, Slugs, Squids and Octopuses, Mussels, Clams, Oysters)

Citations in this chapter relate to the venomous and poisonous gastropods, pelecypods, and cephalopods. Among the venomous gastropods are members of the genus Conus, of which there are approximately 400 species, most confined to the shallow waters of tropical and subtropical seas and oceans. Among the pelecypods are the bivalves, clams, mussels, and oysters, often implicated in paralytic shellfish poisoning. Some octopods are a danger to man, and some squid have been reported to be poisonous.

References to paralytic shellfish poisoning, mussel or clam poisoning, or Gonyaulax poisoning will usually be found in this chapter if a mollusc is involved. If the article deals only with the protistan and its poison, the citation will be found in Chapter III.

- 78 ABBOTT, R.T. Mollusks and medicine in World War II. Smithsonian Inst. Ann. Rept. (3933), p. 25, 1948.
- 79 ABBOTT, R.T. The venomous cone shells. Sci. Counselor 13, 125, 1950.
- 80 ABBOTT, R.T. American Seashells. VanNostrand N.Y., 581p., 1954.
- 81 ABBOTT, R.T. Venom apparatus and geographical distribution in Conus gloriamaris. Notulae Natur. 400, 1, 1967.
- 82 ACKERMANN, D. Über die Extraktstoffe von Mytilus edulis. I. Mitteilung. Z. Biol. 74, 67, 1922.
- 83 ACKERMANN, D. and MOHR, M. Über das Vorkommen von Octopin, Agmatin und Arginin in der Octopodenart Eledone moschata. Hoppe-Seyler's Z. physiol. Chem. 250, 249, 1937.
- 84 ACKERMANN, D. and PANT, R. Inhaltsstoffe des Schwammes Calix niscensis. Z. physiol. Chem. 326, 197, 1961.
- 85 ACRES, J. and GRAY, J. Paralytic shellfish poisoning. Can. med. Assoc. J. 119, 1195, 1978.
- 86 ADACHI, R. Occurrence of toxic bivalves in association with the bloom of Gonyaulax sp. in Oowase Bay. Nihon Suisan-Gakki Shi 42, 671, 1976.
- 87 AKIBA, T. [Studies on short-necked clam and oyster toxins.] Nippon Iji Shimpo (1078), 13, 1943.
- 88 AKIBA, T. Study of poisons of Venerupis semidecussata and Ostrea gigas. Nippon Iji Shimpo (1087), 1077, 1943.
- 89 AKIBA, T. Study on poisoning by the short-necked clam and its poisonous substances. Nissin Igaku 36, 1, 1949.
- 2790 AKIBA, T. Food poisoning due to oysters and baby clams in Japan, and toxicological effects of the toxic substance. 10th Pacif. Sci. Congr., Honolulu, p. 446, 1961 (Abst.).
- 2791 AKIBA, T. and HATTORI, Y. Food poisoning caused by eating asari (Venerupis semidecussata) and oyster (Ostrea gigas) and studies on the toxic substance, venerupin. Jpn. J. exp. Med. 20, 271, 1949.
- 2792 ALLAN, J. Poisonous shellfish. Med. J. Aust. (2), 554, 1935.
- 2793 ALLAN, J. Australian Shells with Related Animals Living in the Sea, in Fresh-water and on the Land. Georgian House: Melbourne, p. 183, 1950.
- 2794 ALPERS, F. Zur Kenntnis der Anatomie von Conus lividus Brug., besonders des Darmkanals. (Fauna et Anatomia ceylanica). Jena Z. Naturwiss. 65, 587, 1931.
- 2795 ANASTASI, A. and ERSPAMER, V. Occurrence and some properties of eledoisin in extracts of posterior salivary glands of Eledone. Br. J. Pharmacol. 19, 326, 1962.
- 2796 ANASTASI, A. and ERSPAMER, V. The isolation and amino acid sequence of eledoisin, the active endopeptide of the posterior salivary glands of Eledone. Arch. Biochem. Biophys. 101, 56, 1963.
- 2797 ANDERSON, D.M. and MOREL, F.M.M. Toxic dinoflagellate blooms in the Cape Cod region of Massachusetts. In, Toxic Dinoflagellate Blooms. (Proc. 2nd Intern. Conf.), Taylor, D.L. and Seliger, H.H. (eds.), Elsevier/North-Holland: N.Y., vol. 1, p. 145, 1979.

- 2798 ANDERSON, L.S. Toxic shellfish in British Columbia. Am. J. pub. Hlth. 50, 71, 1960.
- 2799 ANDERTON, C. Poisoning by mussels. Br. med. J. (1), 500, 1882.
- 2800 ANISIMOV, M.M., PROKOFIEVA, N.G., KOROTKIKH, L.Y., KAPUSTINA, I.I. and STONIK, V.A. Comparative study of cytotoxic activity of triterpene glycosides from marine organisms. Toxicon 18, 221, 1980.
- 2801 ANON. A ship's crew poisoned by mussels. Br. med. J. (2), 657, 1857.
- 2802 ANON. Poisoning by mussels. Br. med. J. (2), 591, 1872.
- 2803 ANON. Empoisonnement par les moules. Bull. Soc. Méd. Chir. Bordeaux 178, 1872.
- 2804 ANON. Death from eating mussels. Lancet (1), 875, 1880.
- 2805 ANON. De l'intoxication par ingestion des mollusques. J. Pract., Paris 14, 99, 1900.
- 2806 ANON. Mussel poisoning. Lancet (1), 472, 1904.
- 2807 ANON. Mussel poisoning. Br. med. J. (2), 176, 1909.
- 2808 ANON. Fish poisons. (Notes and Comments). U.S. Navy med. Bull. 20, 466, 1924.
- 2809 ANON. Shellfish poisoning. Week. Bull. Oregon Bd. Hlth. 20, 1, 1942.
- 2810 ANON. Shellfish poisoning occurs rarely in British Columbia. Comm. Fish. Week. 8, 231, 1942.
- 2811 ANON. Plenary session: report of "B" group. Proc. First Intern. Convention Life Saving Techniques, Part III, Sci. Sect., Bull. Post Grad. Comm. Med., Univ. Sydney, Aust., p. 121, 1963.
- 2812 ANON. Shell death. Sydney Morning Herald Sept. 21, 1963.
- 2813 ANON. Florida octopus bite. Sea Secrets 9, 5, 1965.
- 2814 ANON. Experimental paralytic shellfish poisoning. Nutr. Rev. 24, 127, 1966.
- 2815 ANON. Deadly cone fish poison found. S. Afr. J. Sci. 62, 7, 1966.
- 2816 ANON. Poisoned mussels. Nature 218, 1000, 1968.
- 2817 ANON. The great mussel mystery. Sciences 9, 30, 1969.
- 2818 ANON. Small octopus deadliest animal? Scient. Res. p. 16, Aug. 4, 1969.
- 2819 ANON. Sea squirts. Oceans 5, 41, 1972.
- 2820 ANON. Water, water everywhere. Emerg. Med. 5, 108, 1973.
- 2821 ANON. Report of the World Health Organization expert consultation on paralytic shellfish poisoning. Meeting of the Wld. Hlth. Org., W. Berlin, Dec. 5-8, 1978.
- 2822 ANON. Depuration process cleanses polluted shellfish. BioSciences 29, 384, 1979.
- 2823 ANON. Eight more stricken after consuming tainted mussels. Los Angeles Times, Part 1, p. 26, July 26, 1980.
- 2824 ARMSTRONG, I.H., COULSON, J.C., HAWKEY, P. and HUDSON, M.J. Further mass seabird deaths from paralytic shellfish poisoning. Br. Birds 71, 58, 1978.

- 2825 ARVY, L. Histoenzymological data on the digestive tract of Octopus vulgaris Lamarck (Cephalopoda). Ann. N.Y. Acad. Sci. 90, 929, 1960.
- 2826 ASANO, M. Biochemistry of the octopus. J. Jpn. Chem. 11, 47, 1947.
- 2827 ASANO, M. Studies on the toxic substances contained in marine animals. I. Locality of the poison of Neptunea (Barbitonia) arthritica Bernardi. Bull. Jpn. Soc. scient. Fish. 17, 73, 1952.
- 2828 ASANO, M. Occurrence of choline in the shellfish, Callista brevisiphonata Carpenter. Tohoku J. agric. Res. 4, 239, 1954.
- 2829 ASANO, M. and ITOH, M. Biochemical studies on the octopus. II. Pigments of the integument and ink sack of octopus. Tohoku J. agric. Res. 6, 147, 1955.
- 2830 ASANO, M. and ITOH, M. Occurrence of tetramine and choline compounds in the salivary gland of marine gastropod, Neptunea arthritica Bernardi. Tohoku J. agric. Res. 10, 209, 1959.
- 2831 ASANO, M. and ITOH, M. Salivary poison of a marine gastropod, Neptunea arthritica Bernardi, and the seasonal variation of its toxicity. Ann. N.Y. Acad. Sci. 90, 647, 1960.
- 2832 ASANO, M. and ITOH, M. Are oysters edible during the summer season? Tohoku J. agric. Res. 12, 239, 1961.
- 2833 ASANO, M. and SATO, H. Biochemical studies on octopus. I. Trimethylamine and trimethylamine oxide contents of octopus. Tohoku J. agric. Res. 5, 191, 1954.
- 2834 ASANO, M., TAKAYANAGI, F. and FURUHARA, Y. Studies on the toxic substances in marine animals. II. Shellfish-poisoning from Callista brevisiphonata Carpenter, occurred in the vicinity of Mori, Kayabe County. Bull. Fac. Fish. Hokkaido Univ. 7, 26, 1950.
- 2835 ASANO, M., TAKAYANAGI, F. and KITAMURA, T. Shellfish poisoning from Callista brevisiphonata Carpenter and its clinical symptoms. Tohoku J. agric. Res. 3, 321, 1953.
- 2836 ASERO, B., COLO, V., ERSAMER, V. and VERCELLONE, A. Synthèse des enteramins (5-hydroxytryptamine). Ann. Chem. 576, 69, 1952.
- 2837 ASSOCIATION OF OFFICIAL ANALYTICAL CHEMISTS. Paralytic shellfish poison biological method. In, Official Methods of Analysis. 12th edit., Assoc. Off. Anal. Chem.: Washington, p. 319, 1975.
- 2838 AVARIA, S. Red tides off the coast of Chile. In, Toxic Dinoflagellate Blooms. (Proc. 2nd Intern. Conf.), Taylor, D.L. and Seliger, H.H. (eds.), Elsevier/North-Holland: N.Y., vol. 1, p. 161, 1979.
- 2839 AYRES, P.A. and CULLUM, M. Paralytic shellfish poisoning. An account of investigation into mussel toxicity in England 1968-1977. Direct. Fish. Res. Tech. Rept. (Gr. Brit.) (40), 23p., 1978.
- 2840 AZZI, A. Sulla fine struttura della ghiandola salivare posteriore di Octopus macropus. Arch. Ital. Anat. Embriol. 16, 246, 1918.
- 2841 BACQ, Z.M. Recherches sur la physiologie et la pharmacologie du système nerveux autonome. XVII. Les esters de la choline dans les extraits de tissus des

- Invertébrés. Arch. intern. Physiol. 42, 24, 1935.
- 2842 BACQ, Z.M. Isolement et perfusion des glandes salivaires postérieures des Céphalopodes octopodes. Arch. intern. Physiol. 59, 273, 1951.
- 2843 BACQ, Z.M. and GHIRETTI, F. Un metodo di perfusione delle ghiandole salivari posteriori dei cefalopodi. Boll. Soc. Ital. Biol. sper. 26, 775, 1950.
- 2844 BACQ, Z.M. and GHIRETTI, F. La sécrétion externe et interne des glandes salivaires postérieures des Céphalopodes octopodes. Bull. Acad. Roy. Med. Belg., Classe Sci. 37, 79, 1951; see also Arch. intern. Physiol. 59, 288, 1951.
- 2845 BACQ, Z.M. and GHIRETTI, F. Vasomotor phenomena in cephalopods. J. Physiol. 113, 525, 1951.
- 2846 BACQ, Z.M. and GHIRETTI, F. La sécrétion externe et interne des glandes salivaires postérieures des Céphalopodes octopodes. Arch. intern. Physiol. 60, 165, 1952.
- 2847 BACQ, Z.M. and GHIRETTI, F. Physiologie des glandes salivaires postérieures des Céphalopodes octopodes isolées et perfusées in vitro. Publ. Staz. zool. Napoli 24, 267, 1953.
- 2848 BACQ, Z.M., FISCHER, P. and GHIRETTI, F. Action de la 5-hydroxytryptamine chez les céphalopodes. Arch. intern. Physiol. 60, 165, 1952.
- 2849 BAGLIONI, S. Zur Kenntnis der physiologischen Wirkung des Kephelopodengiftes. Z. Biol. 52, 130, 1909.
- 2850 BAGLIONI, S. Sur l'action physiologique du poison des Céphalopodes. Arch. Ital. Biol. 51, 349, 1909.
- 2851 BAGNIS, R. À propos de quelques cas d'intoxications par des mollusques du genre "Bénitier," dans une file de la Société. Bull. Soc. Path. exot. 60, 580, 1967.
- 2852 BAGNIS, R., BERGLUND, R., ELIAS, P.S. et al. Problems of toxicants in marine food products I. Marine biotoxins. Bull. Wld. Hlth. Org. 42, 69, 1970.
- 2853 BALBAUD, L. Étude sur l'empoisonnement par les moules et autres coquillages. Thèse 211, Paris, 42p., 1870.
- 2854 BALLERING, R.B., JALVING, M.A., VENTRESCA, D.A. et al. Octopus envenomation through a plastic bag via a salivary proboscis. Toxicon 10, 245, 1972.
- 2855 BANNARD, R.A. and CASSELMAN, A.A. Clam poison II. A—Enrichment of the toxin in clam poison tailings by a heavy paper technique. B—Applicability of the technique to large quantities of tailings. Def. Res. Chem. Labs. Can. Rept. (346), 1961.
- 2856 BANNARD, R.A. and CASSELMAN, A.A. Clam poison. II. Purification of clam poison residues of low toxicity by a heavy-paper technique. Can. J. Chem. 39, 1879, 1961.
- 2857 BANNARD, A.R. and CASSELMAN, A.A. Clam poison. IV. Studies on the nitration of clam poison and model compounds. Def. Res. Chem. Labs. Can. Rept. (353), 1961.
- 2858 BANNARD, R.A. and CASSELMAN, A.A. Clam poison. III. Paper electrophoresis of clam poison. Can. J. Chem. 40, 1649, 1962.

- 2859 BANNARD, R.A., GREENHALGH, R. and CASSELMAN, A.A. Clam poison. V. Hydrolysis of clam poison under mild conditions. Def. Res. Chem. Labs. Can. Rept. (358), 1961.
- 2860 BARDET, G. Intoxication par les moules. Hop. Coch. C.R. Trav. Lab. Therap. 1, 106, 1889.
- 2861 BARDET, G. Intoxications par les coquillages. Bull. Mém. Soc. méd. chir. Prat. 309, 1893.
- 2862 BARNES, A.R. Poisoning by mussels. Br. med. J. (1), 576, 1882.
- 2863 BARTSCH, P. Pirates of the deep—stories of the squid and octopus. Smithsonian Inst. Ann. Rept. 1916 (2464), 347, 1917.
- 2864 BATES, H.A., KOSTRIKEN, R. and RAPOPORT, H. A chemical assay for saxitoxin. Improvements and modifications. J. agric. food Chem. 26, 252, 1978.
- 2865 BATES, H.A., KOSTRIKEN, R. and RAPOPORT, H. Occurrence of saxitoxin and other toxins in various dinoflagellates. Toxicon 16, 595, 1978.
- 2866 BAUER, V. Einführung in die Physiologie der Cephalopoden, mit besonderer Berücksichtigung der im Mittelmeer häufigen Formen. Mitt. Zool. Sta. Neapel 19, 149, 1909.
- 2867 BEDOT, M. Notes sur les cellules urticantes. Rev. Suisse Zool. 3, 533, 1896.
- 2868 BEHRE, E. Vergiftungen durch Fischereierzeugnisse. Z. Lebensmitteluntersuch. 89, 299, 1949.
- 2869 BELLESME, J. Recherches sur la digestion chez les mollusques céphalopodes. C.R. Acad. Sci. 138, 428, 1879.
- 2870 BENDER, J.A., DERIEMER, R., ROBERT, T.E. et al. Choline esters in the marine gastropods Nucella emarginata and Acanthina spirata: a new choline ester, tentatively identified as N-methylmurexine. Comp. gen. Pharmac. 5, 191, 1974.
- 2871 BENDIEN, W.M. and SOMMER, H. Purification of paralytic shellfish poison by filtration through active charcoal. Proc. Soc. exp. Biol. 48, 715, 1941.
- 2872 BERGH, R. On the existence of urticating filaments in the Mollusca. Q. J. microsc. Sci. 2, 274, 1862.
- 2873 BERGH, R. Beiträge zur Kenntniss der Coniden. Nova Acta Leopoldina 65, 69, 1895.
- 2874 BERKELEY, C. Toxicity of plankton to Cristispira inhabiting the crystalline style of a mollusk. Science 135, 664, 1962.
- 2875 BERRY, S.S. Report on the Cephalopoda. Biological results of the fishing experiments carried on by the F.I.S. "Endeavour." Commonwealth Aust., Dept. Trade, Customs, Fish. 4, 203, 1918.
- 2876 BERRY, S.S. and HALSTEAD, B.W. Octopus bites—a second report. Leaf. Malacol. 1, 59, 1954.
- 2877 BERT, P. Memoire sur la physiologie de la seiche. Mém. Soc. Sci. Phys. nat. Bordeaux 5, 115, 1867.
- 2878 BLANC, M.H., ZWAHLEN, A. and ROBERT, M. Symptoms of shellfish poisoning. New Engl. J. Med. 296, 287, 1977.
- 2879 BLANKENSHIP, J.E., LANGLAIS, P.J. and KITTREDGE, J.S. Identification of a cholinomimetic compound in the digestive gland of Aplysia californica. Comp.

- Biochem. Physiol. 51C, 129, 1975.
- 2880 BLASCHKO, H. Amino oxidase and amine metabolism. Pharmac. Rev. 4, 415, 1952.
- 2881 BLASCHKO, H. and HAWKINS, J. Observations on amine oxidase in cephalopods. J. Physiol. 118, 88, 1952.
- 2882 BLASCHKO, H. and HELLMANN, K. Pigment formation from tryptamine and 5-hydroxytryptamine in tissues: a contribution to the histochemistry of amine oxidase. J. Physiol. 122, 419, 1953.
- 2883 BLASCHKO, H. and HIMMS, J.M. Enzymic oxidation of amines in decapods. J. Physiol. 131, 1, 1954.
- 2884 BLOGOSLAWSKI, W. and NEVE, R. Detoxification of shellfish. In, Toxic Dinoflagellate Blooms. (Proc. 2nd Intern. Conf.), Taylor, D.L. and Seliger, H.H. (eds.), Elsevier/North-Holland: N.Y., vol. 1, p. 473, 1979.
- 2885 BLOGOSLAWSKI, W.J. and STEWART, M.E. Paralytic shellfish poison in Spisula solidissima; anatomical location and ozone detoxification. Mar. Biol. 45, 261, 1978.
- 2886 BOEHRER, J.L., SOLAR, S., RABES-ANDRATANA, H. and COULANGES, P. Toxicologic and analytical study of the venom of Conus tessulatus. Arch. Inst. Pasteur, Madagascar 43, 245, 1975.
- 2887 BOLTON, B.L., BERGNER, A.D., O'NEILL, J.J. and WAGLEY, P.F. Effect of a shell-fish poison on end-plate potentials. Bull. Johns Hopkins Hosp. 105, 235, 1959.
- 2888 BOND, R.M. and MEDCOF, J.C. Epidemic shellfish poisoning in New Brunswick. In, Conference on Shellfish Toxicology. U.S. Pub. Hlth. Serv. Spec. Publ. (96), 1957; see also Dept. Fish., Fish. Inspect. Lab., St. Andrews, N.B., 1957; see also Can. med. Assoc. J. 79, 19, 1958.
- 2889 BONNET, A. and JULLIEN, A. Toxicité comparée des extraits de la glande à pourpre chez Murex trunculus et Murex brandaris. C.R. Soc. Biol. 135, 958, 1941.
- 2890 BOSE, R.J. and REID, J.E. Evidence for the heterogeneity of paralytic shellfish toxin in clam and mussel samples gathered near Prince Rupert, B.C. In, Toxic Dinoflagellate Blooms. (Proc. 2nd Intern. Conf.), Taylor, D.L. and Seliger, H.H. (eds.), Elsevier/North-Holland: N.Y., vol. 1, p. 399, 1979.
- 2891 BOTTAZZI, F. Ricerche sulla ghiandola salivare posteriore dei cefalopodi. I. Pubbl. Staz. zool. Napoli 1, 59, 1916; see also Rend. Accad. Nazl. Lincei 27, 190, 1918.
- 2892 BOTTAZZI, F. Ricerche sulla ghiandola salivare posteriore dei cefalopodi. II. Pubbl. Staz. Zool. Napoli 1, 69, 1919.
- 2893 BOTTAZZI, F. Recherches sur la "glande salivaire posterieure" des céphalopodes. Cong. Intern. Physiol., Paris, 1920.
- 2894 BOTTAZZI, F. Recherches sur la "glande salivaire posterieure" de l'Octopus macropus. Arch. intern. Physiol. 18, 313, 1921.
- 2895 BOTTAZZI, F. and ENRIQUE, P. Sur les propriétés osmotiques des glandes salivaires posterieures de l'Octopus macropus dans le repos et à la suite de l'activité sécrétoire. Arch. Ital. Biol. 35, 169, 1901.

- 2896 BOTTAZZI, F. and VALENTINI, V. Nuove ricerche sul veleno della "saliva" di Octopus macropus. Arch. Sci. biol., Napoli 6, 153, 1924.
- 2897 BOUCHILLOUX, S. and ROCHE, J. Contribution à l'étude biochimique de la pourpre des Murex. Bull. Inst. Océanogr. 52, 17, 1955.
- 2898 BOURNE, N. Paralytic shellfish poison in sea scallops Placochelys magellanicus Gmelin. J. Can. Fish. Res. Bd. 22, 1137, 1965.
- 2899 BOURNE, W.R.P. Mussel poisoning. Lancet (2), 976, 1968.
- 2900 BOURQUELOT, E. Recherches expérimentales sur l'action des sucs digestifs des céphalopodes sur les matières amylacées et sucrées. Arch. Zool. exp. gén. 10, 385, 1882.
- 2901 BOURQUELOT, E. Recherches sur les phénomènes de la digestion chez les mollusques céphalopodes. Arch. Zool. exp. gén. 3, 1, 1885.
- 2902 BOYD, H.L. Annual report of shellfish toxicity monitoring program 1977. Rept. Fish. Mar. Serv. Can. (85), 1977.
- 2903 BOYER, G.L., SCHANTZ, E.J. and SCHNOES, H.K. Characterization of 11-hydroxysaxitoxin sulphate, a major toxin in scallops exposed to blooms of the poisonous dinoflagellate Gonyaulax tamarensis. J. chem. Soc. Lond. Chem. Commun. (20), 889, 1978.
- 2904 BOYER, G.L., MOSSER, J.L., SCHNOES, H.K. and SCHANTZ, E.J. The structure of a saxitoxin analog produced by Gonyaulax tamarensis. Fed. Proc. 37, 1825, 1978.
- 2905 BOYER, G.L., WICHMANN, C.F., MOSSER, J., SCHANTZ, E.J. and SCHNOES, H.K. Toxins isolated from Bay of Fundy scallops. In, Toxic Dinoflagellate Blooms. (Proc. 2nd Intern. Conf.), Taylor, D.L. and Seliger, H.H. (eds.), Elsevier/North-Holland: N.Y., vol. 1, p. 345, 1979.
- 2906 BRAARUD, T. Marine planktonalger som arsak til blaskjellforgiftning og andre skader. Naturen 8, 451, 1963.
- 2907 BRIEGER, L. Ueber uasische Produkte in der Miesmuschel. Deutsch med. Wschr. 11, 907, 1885.
- 2908 BRIEGER, L. Zur Kenntniss des Tetanin und des Mytilotoxin. Virchows Arch. 112, 549, 1888.
- 2909 BRIEGER, L. Beitrag zur Kenntniss der Zusammensetzung des Mytilotoxins nebst einer Uebersicht der bisher in ihren Haupteigenschaften bekannten Ptomaine und Toxine. Virchows Arch. 115, 483, 1889.
- 2910 BRIOT, A. Sur le mode d'action du venin des céphalopodes. C.R. Soc. Biol. 58, 1, 1905.
- 2911 BRONGERSMA-SANDERS, M.B. The Importance of Upwelling Water to Vertebrate Paleontology and Oil Geology. N.B. Noord-Hollandsche Uitgevers Maatschappij: Amsterdam, 112p., 1948.
- 2912 BRONGERSMA-SANDERS, M. Mass mortality in the sea. In, Treatise on Marine Ecology and Paleocology. Hedgpeth, J.W. (ed.), Waverly Press: Baltimore, p. 941, 1957.
- 2913 BROWN, L.D. and DORN, C.R. Fish, shellfish and human health. J. Food Prot. 40, 712, 1977.

- 2914 BRUUN, O. Et tilfaelde af atrofisk spinalparese fremkaldt ved muslingeforgiftning. Hospitalstidende Ser. 2, 6, 181, 1879.
- 2915 BRYGOD, E.R. and RABESANDRATANA, H. Toxicity for the mouse of the venom of Conus tessulatus, Mollusca, Prosobranchiata toxoglossa. C.R. Séanc. Soc. Biol. Fil. 165, 2469, 1971.
- 2916 BUCKLEY, L.J., OSHIMA, Y. and SHIMIZU, Y. Construction of a paralytic shellfish toxin analyzer and its application. Anal. Biochem. 85, 157, 1978.
- 2917 BUENAFLO, H.G., MENDOZE, E.M.T. and CRUZ, L.J. [Biochemical characterization of Conus magus venom.] Seikagaku 49, 7, 1977.
- 2918 BULL, R.J. and TREVOR, A.J. Saxitoxin, tetrodotoxin and the metabolism and cation fluxes in isolated cerebral tissues. J. Neurochem. 19, 999, 1972.
- 2919 BULSTRODE, H.T. Report on an inquiry into the conditions under which oysters and certain other edible molluscs are cultivated and stored along the coast of England and Wales. Ann. Rept. Local Govt. Bd., 1894-1895, London, p. 24, 90, 1896.
- 2920 BURGHARDT, G.F. Snail with a spear. Pac. Discovery 20, 18, 1967.
- 2921 CALMETTE, A. Les Venins. Les Animaux Venimeux et la Sérothérapie Antivenimeuse. Masson & Cie: Paris, 396p., 1907.
- 2922 CALMETTE, A. Venoms. Venomous Animals and Antivenomous Serum-Therapeutics. John Bale, Sons & Danielsson: London, 1908.
- 2923 CAMERON, A.M. Toxicity phenomena in coral reef waters. Proc. 2nd Intern. Coral Reef Symp. 1, 513, 1974.
- 2924 CAMERON, C.A. Note on poisoning by mussels. Br. med. J. (2), 150, 1890.
- 2925 CAMPBELL, J.E. Analytical procedures for paralytic shellfish poison. In, Proceedings of the Joint Sanitation Seminar on North Pacific Clams. Felsing, W.A., Jr. (ed.), Govt. Print. Off.: Washington, p. 17, 1965.
- 2926 CANTONI, C., D'AUBERT, S. and PERSIANI, G. Avvelenamento paralitico da consumo di molluschi bivalvi. Arch. Vet. Ital. 29, 24, 1978.
- 2927 CARDOT, H. and JULLIEN, A. Action de la pourpre sur l'excitabilité du nerf et du muscle. C.R. Soc. Biol. 133, 521, 1940.
- 2928 CARIELLO, L. and ZANETTI, L. α - and β -cephalotoxin: two paralyzing proteins from posterior salivary glands of Octopus vulgaris. Comp. Biochem. Physiol. 57, 169, 1977.
- 2929 CASSELMAN, A.A., GREEHALGH, R., BROWNELL, H.H. and BANARD, R.A.B. Clam poison. I. The paper chromatographic purification of clam poison dihydrochloride. Can. J. Chem. 38, 1277, 1960.
- 2930 CATTERALL, W.A. and MORROW, C.S. Binding of saxitoxin to electrically excitable neuroblastoma cells. Proc. natn. Acad. Sci., U.S. 75, 218, 1978.
- 2931 CHAMBERS, J.S. and MAGNUSSON, H.W. Seasonal variations in toxicity of butter clams from selected Alaska beaches. U.S. Fish.

Wildl. Serv., Fish., Spec. Sci.
Rept. (53), 19p., 1950.

- 2932 CHAMBERS, J.S., CARLSON, C.J.
and MAGNUSSON, H.W. Techno-
logical studies on the Alaska but-
ter clam, Saxidomus giganteus;
IV. Variability of beds within indi-
vidual bays. Fish. Exp. Comm.
Alaska, Fish. Prod. Lab., Ketchi-
kan, Tech. Rept. (K-39), 1951.
- 2933 CHAMBERS, J.S., CRAVEN, H.J. and
GALERMAN, D.M. Technolog-
ical studies on the Alaska butter
clam; additional studies of the
seasonal variations in toxicity of
butter clams from selected
beaches. Fish. Exp. Comm.
Alaska, Fish. Prod. Lab., Ketchi-
kan, Tech. Rept. (K-43), 13, 1952.
- 2934 CHAMBERS, J.S., CARLSON, C.J.,
MAGNUSSON, H.W., BAKER, A.
and HAGEVID, W.A. Technologi-
cal studies on the Alaska butter
clam, Saxidomus giganteus; VI.
Survey of Alaska clam beds. Fish.
Exp. Comm. Alaska, Fish. Prod.
Lab., Ketchikan, Tech. Rept. (K-
41), 1951.
- 2935 CHANLEY, J.D., MEZZETTI, T. and
SOBOTKA, H.E. The holothurino-
genins. Tetrahedron 22, 1857,
1966.
- 2936 CHANLEY, J.D., KOHN, S.K., NIG-
RELLI, R.R. and SOBOTKA, H.
Further chemical analysis of hol-
othurin, the saponin-like steroid
from the sea-cucumber. Part III.
Zoologica 40, 99, 1955.
- 2937 CHANLEY, J.D., PERLSTEIN, J.,
NIGRELLI, R.F. and SOBOTKA,
H. Further studies on the struc-
ture of holothurin. Ann. N.Y.
Acad. Sci. 90, 202, 1960.
- 2938 CHARNOT, A. La toxicologie au
Maroc. Mém. Soc. Sci. nat. Maroc
47, 86, 1945.
- 2939 CHEVALLIER, A. and DUCHESNE,
E.A. Mémoire sur les empoison-
nements par les huîtres, les
moules, les crabes, et par certains
poisons de mer et de rivière. Ann.
Hyg. Pub. 46, 108, 1851.
- 2940 CHEYMOL, J., BOURILLET, F.,
LONG, P. and ROCH-ARVEIL-
LER, M. Action paralysante
neuromusculaire de la saxitoxine.
Arch. intern. Pharmacodyn.
Thér. 174, 393, 1968.
- 2941 CHO, C.H. Mass mortalities of oys-
ter due to red tide in Jinhae Bay in
1975. Bull. Korean Fish. Soc. 12,
27, 1979.
- 2942 CILENTO, R.W. Some Poisonous
Plants, Sea and Land Animals of
Australia and New Guinea. W.R.
Smith & Paterson Pty: Brisbane,
37p., 1944.
- 2943 CIOCATTO, E., CATTANEO, A. and
FAVA, E. Esperienze cliniche con
un nuovo curarizzante: murexina.
Minerva Anestes 22, 197, 1956.
- 2944 CLAPHAM, W.F. and EVANS, M.H.
Reduced sodium exchange in mus-
cle exposed to "paralytic shellfish
poison." J. Physiol. 173, 24, 1964.
- 2945 CLARK, R.B. Biological causes and
effects of paralytic shellfish poi-
soning. Lancet (2), 770, 1968; see
also J.A.M.A. 206, 1621, 1969.
- 2946 CLARK, W.G. Amine content and
biosynthesis in mastocytomas and
octopus salivary glands. Fed.
Proc. 19, 150, 1960.
- 2947 CLELAND, J.B. Injuries and diseases
of man in Australia attributable
to animals, except those due to
snakes and insects. 6th Rept.,
Govt. Bur. Microbiol., Dept. Pub.
Hlth., N.S.W., Australia, 267p.,
1915.

- 948 CLELAND, J.B. Injuries and diseases in Australia attributable to animals. Med. J. Aust. (2), 313, 1942.
- 949 CLELAND, J.B. Injuries from animals. Med. J. Aust. (2), 491, 1942.
- 950 CLELAND, J.B. and SOUTHCOTT, R.V. Injuries to Man from Marine Invertebrates in the Australian Region. Commonwealth of Australia: Canberra, p. 195, 1965.
- 951 CLEM, J.D. Toxic dinoflagellates, shellfish and public health. In, Toxic Dinoflagellate Blooms. Taylor, D.L. and Seliger, H.H. (eds.), Elsevier/North-Holland: N.Y., vol. 1, p. 33, 1979.
- 2952 CLENCH, W.J. The poison cone shell. Occ. Pap. Mollusks, Harvard Mus. comp. Zool. 1, 49, 1946.
- 2953 CLENCH, W.J. Supplement to the poison cone shell. Occ. Pap. Mollusks, Harvard Mus. comp. Zool. 2, 344, 1946.
- 2954 CLENCH, W.J. and KONDO, Y. The poison cone shell. Am. J. trop. Med. 23, 105, 1943.
- 2955 COLBY, M. Poisonous marine animals in the Gulf of Mexico. Proc. Trans. Texas Acad. Sci. 26, 62, 1943.
- 2956 COLLINS, H.G., JR., CLARK, A.H. and WALKER, E.H. The Aleutian Islands: their people and natural history. War Background Study (21), 25p., 1945.
- 2957 COOKE, A.H. Molluscs. Cambridge nat. Hist. 3, 65, 1895.
- 2958 COOPER, M.J. Ciguatera and other marine poisonings in the Gilbert Islands. Pac. Sci. 18, 411, 1964.
- 2959 COPPEE, C. Note sur l'empoisonnement par les moules. Bull. Soc. Roy. méd. Gand 23, 311, 1856.
- 2960 CORNEY, R.G. Poisonous molluscs. Nature 65, 198, 1902.
- 2961 CORNMAN, I. Toxic properties of the saliva of Cassia. Nature 200, 88, 1963.
- 2962 COULSEN, J.C., POTTS, G.R., DEANS, I.R. and FRASER, S.M. Mortality of shags and other birds caused by paralytic shellfish poison. Nature 220, 23, 1968.
- 2963 COVELL, W.P. and WHELDON, W.F. Effects of the paralytic shellfish poison on nerve cells. Arch. Path. 24, 411, 1937.
- 2964 COX, J.C. Notes and exhibits—note regarding Conus geographicus. Proc. Linn. Soc. New S. Wales 9, 944, 1885.
- 2965 COXEN, C. Notes on poisonous cones. Proc. Roy. Soc. Queensland 10, 38, 1893.
- 2966 CRAIFALEANU, A.D. Studies on the ferments of sea animals. Mollusca. Proteolytic ferments in the liver of Sepia officinalis. Pubbl. Staz. zool. Napoli 1, 155, 1916.
- 2967 CROFT, J.A. and HOWDEN, M.E.H. Chemistry of maculotoxin: a potent neurotoxin isolated from Hapalochlaena maculosa. Toxicon 10, 645, 1972.
- 2968 CRONE, H.D., LEAKE, B., JARVIS, M.W. and FREEMAN, S.E. On the nature of "maculotoxin," a toxin from the blue-ringed octopus (Hapalochlaena maculosa). Toxicon 14, 423, 1976.
- 2969 CROSSE, H. and MARIE, E. Catalogue des cônes de la Nouvelle-Calédonie et des îles qui en dépendent. J. Conchyl. 22, 353, 1874.
- 2970 CRUMPE, F. Observations on the musculus venosus, and on its use

in tetanus. Dublin med. J. Sci. 54, 257, 1872.

- 971 CRUZ, L.G., GRAY, W.R. and OLIVERA, B.M. Purification and properties of a myotoxin from Conus geographus venom. Arch. Biochem. Biophys. 190, 539, 1978.
- 972 CUENOT, L. Fonctions absorbante et excrétrice du foie des céphalopodes. Arch. Zool. exp. gén. 4, ser. 7, 227, 1907.
- 973 CUMMINS, J.M., JONES, A.C. and STEVENS, A.A. Occurrence of toxic bivalve molluscs during a Gymnodinium breve "Red Tide." Trans. Am. Fish. Soc. 100, 112, 1971.
- 974 DACK, G.M. Food Poisoning. Univ. Chicago Press: Chicago, 138p., 1956.
- 975 D'AGUANNO, W. Pharmacology of paralytic shellfish poison. Pharmacologist 1, 71, 1959.
- 976 DALE, B. and YENTSCH, C.M. Red tide and paralytic shellfish poisoning. Oceanus 21, 41, 1978.
- 977 DALE, B., YENTSCH, C.M. and HURST, J.W. Toxicity in resting cysts of the red-tide dinoflagellate Gonyaulax excavata from deeper water coastal sediments. Science 201, 1223, 1978.
- 978 D'ALESSANDRO, F. I molluschi eduli quali veicoli di malattie. Aliment. Nutr. Metab. 3, 313, 1977.
- 979 D'ARCA, S.U., DI VINCENZO, A. and VALENTI, M. Intossicazioni acute da peci e molluschi. Aliment. Nutr. Metab. 4, 35, 1979.
- 980 DASSOW, J.A. Processing detoxification. In, Proceedings of the Joint Sanitation Seminar on North Pacific Clams. Felsing, W.A., Jr. (ed.), Govt. Print. Off.: Washington, p. 12, 1965.
- 2981 DAVIES, F.R., EDWARDS, H.J., KITCHEN, W.L. and TOMLINSON, H.O. Shellfish toxin in cultivated oysters. Can. J. pub. Hlth. 49, 286, 1958.
- 2982 DE BLASI, S. and LEONE, U. Uso clinico di un nuovo curarizzante: la Murexina. Minerva Anestes 21, 137, 1955.
- 2983 DE CLERCQ, M. Aperçu sur les recherches scientifiques effectuées dans le domaine de la toxicologie marine. Les animaux marins toxicophores. Ann. Biol. 3, 429, 1964.
- 2984 DEES, L.I. Cephalopods: cuttlefish, octopuses, squids. U.S. Fish Wildl. Serv., Fish. Leaflet (524), 10p., 1961.
- 2985 DE FARIA, J.A. Intoxicações alimentares pelos mariscos. J. Med. Porto. 18, 881, 1951.
- 2986 DE MENDIOLA, B.R. Red tide along the Peruvian coast. In, Toxic Dinoflagellate Blooms. (Proc. 2nd Intern. Conf.), Taylor, D.L. and Seliger, H.H. (eds.), Elsevier/North-Holland: N.Y., vol. 1, p. 183, 1979.
- 2987 DE ROUVILLE, E. Études physiologiques sur les glandes salivaires des Céphalopodes, et, en particulier, sur la toxicité de leurs extraits. C.R. Soc. Biol. 68, 834, 1910.
- 2988 DE ROUVILLE, E. Sur la toxicité des extraits des glandes salivaires des Céphalopodes pour les Mammifères. C.R. Soc. Biol. 68, 878, 1910.
- 2989 DERRIEN. [Regarding the biochemistry of the hypobranchial gland

- of Murex.] Bull. Soc. Chim. France 4, 110, 374, 1910.
- 2990 DETTBARN, W.D., HIGMAN, H.B., BARTELS, E. and PODLESKI, T. Effects of marine toxins on electrical activity and K⁺ efflux on excitable membranes. Biochem. biophys. Acta 94, 472, 1965.
- 2991 DETTBARN, W.D., HIGMAN, H., ROSENBERG, P. and NACHMANSOHN, D. Rapid and reversible block of electrical activity by powerful marine biotoxins. Science 132, 300, 1960.
- 2992 DOIG, M.T., III, MARTIN, D.F. and PADILLA, G.M. Marine bioactive agents: chemical and cellular correlates. In, Marine Pharmacognosy. Action of Marine Biotoxins at the Cellular Level. Martin, D.F. and Padilla, G.M. (eds.), Academic: N.Y., p. 1, 1973.
- 2993 DONE, A.K. Intoxications of the nervous system. In, Practice of Pediatrics. Rev. edit., Kelley, V.C. (ed.), Harper & Row: Hagerstown, Md., 1977.
- 2994 DOS SANTOS, P. and DE SOUSA E SILVA, E. The toxicity of Cardium edule L. and its possible relation to the dinoflagellate Procentrum micans Ehr. Notas estud. Inst. Biol. Maritima, Lisbon 12, 1, 1956.
- 2995 DOWN, R.J. The medical significance of shellfish and blowfish neurotoxins (saxitoxin and tetrodotoxin) as suggested by tests in killifish (Fundulus heteroclitus). In, Food-Drugs from the Sea. Youngken, H.W. (ed.), Mar. Tech. Soc.: Washington, 1970.
- 2996 DREISBACH, R.H. Handbook of Poisoning: Diagnosis and Treatment. 3rd edit., Lange Med. Publ.: Los Altos, Calif., 1966.
- 2997 DU BOIS, K.P. and GELLING, E.M.K. Textbook on Toxicology. Oxford Univ. Press: N.Y., 302p., 1959.
- 2998 DUBOIS, R. Sur le venin de la glande à pourpre des Murex. C.R. Soc. Biol. 55, 81, 1903.
- 2999 DUBOIS, R. Adrénaline et purpurine. C.R. Soc. Biol. 63, 636, 1907.
- 3000 DUBOIS, R. Recherches sur la pourpre et sur quelques autres pigments animaux. Arch. Zool. exp. gén. 2, 471, 1909.
- 3001 DUBRISAY, J. De l'intoxication par les moules. Un. méd., Paris 46, 409, 1888; see also Bull. Soc. Méd., Paris 23, 102, 1889.
- 3002 DULHUNTY, A. and GAGE, P.W. Selective effects of an octopus toxin on action potentials. J. Physiol. 218, 433, 1971.
- 3003 DUPUY, J.L. and SPARKS, A.K. Gonyaulax washingtonensis, its relationship to Mytilus californianus and Cressastrea gigas as a source of paralytic shellfish toxin in Sequim Bay, Washington. Proc. natn. Shellfish. Assoc. 58, 2, 1967.
- 3004 DYMSZA, H., SHIMIZU, Y., RUSSELL, F.E. and GRAHAM, H.D. Poisonous marine animals. In, The Safety of Foods. 2nd edit., Graham, H.D. (ed.), Avi Publ.: Westport, Conn., p. 625, 1980.
- 3005 EBRIGHT, G.E. Clam and mussel poisoning. Calif. West. Med. 32, 382, 1930.
- 3006 EDMONDS, C. A non-fatal case of blue-ringed octopus bite. Med. J. Aust. (2), 501, 1969.
- 3007 EDMONDS, M. Acid secretion in some species of Doridacea (Mollusca, Nudibranchia). Proc. malac. Soc. London 38, 121, 1968.

- 08 EDWARDS, H.I. The etiology and epidemiology of paralytic shellfish poison. J. milk food Tech. 19, 331, 1956.
- 09 ELDRED, B., STEIDINGER, K. and WILLIAMS, J. Preliminary studies of the relation of Gymnodinium breve counts to shellfish toxicity. In, A Collection of Data in Reference to Red Tide Outbreaks During 1963. Mar. Lab., Florida Bd. Conserv.: St. Petersburg, Fla., p. 23, 1964.
- 10 ELLIOTT, E.J. Cholinergic response in the heart of the clam Mercenaria mercenaria: activation by Conus californicus venom component. J. comp. Physiol. A129, 61, 1979.
- 11 ELLIOTT, E.J. and KEHOE, J. Cholinergic receptor in Aplysia neurons—activation by a venom component from marine snail Conus californicus. Brain Res. 156, 387, 1978.
- 12 ELLIOTT, E.J. and RAFERTY, M.A. Venom of the marine snail Conus californicus: biochemical studies of a cholinomimetic component. Toxicon 17, 259, 1979.
- 13 EMMELIN, N. and FÄNGE, R. Comparison between biological effects of neurine and a salivary gland extract of Neptunea antiqua. Acta Zool. 39, 47, 1958.
- 14 ENDEAN, R. Venomous cones. Aust. nat. Hist. 14, 400, 1964.
- 15 ENDEAN, R. Venomous marine animals. Aust. Territories 5, 31, 1965.
- 16 ENDEAN, R. Marine toxins. Sci. J. 2, 57, 1966.
- 17 ENDEAN, R. Aspects of molluscan pharmacology. Chem. Zool. 7, 421, 1972.
- 3018 ENDEAN, R. and DUCHEMIN, C. The venom apparatus of Conus magus. Toxicon 4, 275, 1967.
- 3019 ENDEAN, R. and IZATT, J. Pharmacological study of the venom of the gastropod Conus magus. Toxicon 3, 81, 1965.
- 3020 ENDEAN, R. and RUDKIN, C. Studies of the venoms of some Conidae. Toxicon 1, 49, 1963.
- 3021 ENDEAN, R. and RUDKIN, C. Further studies of the venoms of Conidae. Toxicon 2, 225, 1965.
- 3022 ENDEAN, R., GYR, P. and PARISH, G. Pharmacology of the venom of the gastropod Conus magus. Toxicon 12, 117, 1974.
- 3023 ENDEAN, R., GYR, P. and SURRIDGE, J. The pharmacological actions on guinea-pig ileum of crude venoms from the marine gastropods Conus striatus and Conus magus. Toxicon 15, 327, 1977.
- 3024 ENDEAN, R., GYR, P. and SURRIDGE, J. The effects of crude venoms of Conus magus and Conus striatus on the contractile response and electrical activity of guinea-pig cardiac musculature. Toxicon 17, 381, 1979.
- 3025 ENDEAN, R., IZATT, J. and MC COLM, D. The venom of the piscivorous gastropod Conus striatus. In, Animal Toxins. Russell, F.E. and Saunders, P.R. (eds.), Pergamon: Oxford, p. 137, 1967; see also Toxicon 3, 81, 1965; see also Toxicon 4, 293, 1967.
- 3026 ENDEAN, R., PARISH, G. and GYR, P. Pharmacology of the venom of Conus geographus. Toxicon 12, 131, 1974.
- 3027 ENDEAN, R., SURRIDGE, J. and GYR, P. The effects of the

- venoms of Conus magus and Conus striatus on calcium influx in isolated guinea-pig atria. Proc. 3rd Intern. Coral Reef Symp., Miami, Fla., p. 640, 1977.
- 1028 ENDEAN, R., SURRIDGE, J. and GYR, P. Some effects of crude venom from the cones Conus striatus and Conus magus on isolated guinea-pig atria. Toxicon 15, 369, 1977.
- 1029 ENDEAN, R., WILLIAMS, H., GYR, P. and SURRIDGE, J. Some effects on muscle and nerve of crude venom from the gastropod Conus striatus. Toxicon 14, 267, 1976.
- 1030 ENGELSEN, H. En kort oversigt over giftige marine mollusker. Norsk. Tidsskr. Mil. Med. 26, 192, 1922.
- 1031 ERSPAMER, V. Caratterizzazione biologica di una nuova amina di-polifenolica negli estratti acetonicici di ghiandola salivare posteriore di Octopus vulgaris. Arch. Sci. Biol. 26, 295, 1940.
- 1032 ERSPAMER, V. Azione adrenalino-simile degli estratti di ghiandola salivare posteriore di Octopus vulgaris irradiati con luce ultravioletta. Arch. Sci. Biol. (Bologna) 26, 443, 1940.
- 1033 ERSPAMER, V. Sulle reazioni colorate degli estratti di ghiandola ipobranchiale di Murex trunculus, Murex brandaris e Murex erinaceus. Ricerca Sci. 16, 938, 1946.
- 1034 ERSPAMER, V. Ricerche chimiche e farmacologiche sugli estratti di ghiandola ipobranchiale di Murex (Truncularia) trunculus (L.), Murex (Bolinus) brandaris (L.), e Tritonalia erinacea (L.). I. Distribuzione e caratteristiche della purpurasi e delle purpurine. Pubbl. Staz. zool. Napoli 20, 91, 1946.
- 3035 ERSPAMER, V. Ricerche chimiche e farmacologiche sugli estratti di ghiandola ipobranchiale di Murex trunculus, Murex brandaris e Tritonalia erinacea. II. Reazioni chimiche colorate degli estratti. Arch. intern. Pharmacodyn. 74, 113, 1947.
- 3036 ERSPAMER, V. Osservazioni preliminari, chimiche e farmacologiche, sulla murexina. Arch. intern. Pharmacodyn. 74, 263, 1947.
- 3037 ERSPAMER, V. Ricerche chimiche e farmacologiche sugli estratti di ghiandola ipobranchiale di Murex trunculus, Murex brandaris e Tritonalia erinacea. IV. Presenza negli estratti di enteramina o di una sostanza enteraminosimile. Arch. intern. Pharmacodyn. 76, 308, 1948.
- 3038 ERSPAMER, V. Osservazioni preliminari, chimiche e farmacologiche, sulla murexina. Experientia 4, 226, 1948.
- 3039 ERSPAMER, V. Active substance in the posterior salivary glands of Octopoda. I. Enteramine-like substances. Acta pharmac. tox. 4, 213, 1948.
- 3040 ERSPAMER, V. Active substances in the posterior salivary glands of Octopoda. II. Tyramine and octopamine (oxyoctopamine). Acta pharmac. tox. 4, 224, 1948.
- 3041 ERSPAMER, V. Ricerche preliminari sulla moschatina. Experientia 5, 79, 1949.
- 3042 ERSPAMER, V. Wirksame Stoffe der hinteren Speicheldrüsen der Octopoden und der Hypobranchialdrüse der Purpurschnecken. Arzneimittel-Forsch. 2, 253, 1952.

- ERSPAMER, V. Identification of octopamine as 1-p-hydroxyphenylethanolamine. Nature 169, 375, 1952.
- ERSPAMER, V. Murexin. Arch. exp. Path. Pharmacol. 218, 142, 1953.
- ERSPAMER, V. Über den 5-hydroxytryptamine (enteramine) gehalt des Magendarmtraktes bei den Sirbeltieren. Naturwissenschaften 40, 318, 1953.
- ERSPAMER, V. The enterochromaffin cell system and 5-hydroxytryptamine (enteramine, serotonin). Triangle 2, 129, 1956.
- ERSPAMER, V. and ANASTASI, A. Structure and pharmacological actions of eledoisin, the active endecapeptide of the posterior salivary glands of Eledone. Experientia 18, 58, 1962.
- ERSPAMER, V. and ASERO, B. L'enteramina, prodotto ormonale specifico del sistema enterochromaffine. Caratteristiche chimiche e farmacologiche della sostanza pura, naturale e di sintesi. Ricerca Sci. 21, 3, 1951.
- ERSPAMER, V. and ASERO, B. Identification of enteramine, the specific hormone of the enterochromaffin cell system, as 5-hydroxytryptamine. Nature 169, 800, 1952.
- ERSPAMER, V. and ASERO, B. Isolation of enteramine from extracts of posterior salivary glands of Octopus vulgaris and of Discoglossus pictus skin. J. biol. Chem. 200, 311, 1953.
- ERSPAMER, V. and BENATI, O. Identification of murexine as β -[imidazolyl-(4)]-acryl-choline. Science 117, 161, 1953.
- 3052 ERSAPAMER, V. and BENATI, O. Isolierung des Murexins aus Hypobranchialdrüsenextrakten von Murex trunculus und seine Identifizierung als β -[imidazolyl-4-(5)]-acryl-choline. Biochem. Z. 324, 66, 1953.
- 3053 ERSAPAMER, V. and BORETTI, G. Identification of enteramine and enteramine-related substances in extracts of posterior salivary glands of Octopus vulgaris by paper chromatography. Experientia 6, 348, 1950.
- 3054 ERSAPAMER, V. and BORETTI, G. Identification and characterization, by paper chromatography, of enteramine, octopamine, tyramine, histamine and allied substances in extracts of posterior salivary glands of Octopoda and in other tissue extracts of vertebrates and invertebrates. Arch. intern. Pharmacodyn. 88, 296, 1951.
- 3055 ERSAPAMER, V. and DORDONI, F. Sulla murexina, nuovo derivato colinico degli estratti di organo ipobranchiale di Murex trunculus, Murex brandaris e Tritonia erinacea. Ricerca Sci. 16, 1114, 1946.
- 3056 ERSAPAMER, V. and DORDONI, F. Ricerche chimiche e farmacologiche sugli estratti di ghiandola ipobranchiale di Murex trunculus, Murex brandaris e Tritonia erinacea. III. Presenza negli estratti di un nuovo derivato della colina o di una colina omologa: la murexina. Arch. intern. Pharmacodyn. 74, 263, 1947.
- 3057 ERSAPAMER, V. and ERSAPAMER, G.F. Pharmacological actions of eledoisin on extravascular smooth muscle. Br. J. Pharmacol. 19, 337, 1962.
- 3058 ERSAPAMER, V. and FAUSTINI, R. Über den 5-hydroxytryptamin

(enteramin-, serotonin-) gehalt des Serums und des Milzgewebes bei Wirbeltieren sowie der Hämolymphe bei Octopoden. Naturwissenschaften 40, 317, 1953.

- 3059 ERSPAMER, V. and GHIRETTI, F.
The action of enteramine on the heart of molluscs. J. Physiol. 115, 470, 1951.
- 3060 ERSPAMER, V. and GLAESSER, A.
The pharmacological actions of murexine (urocanyl-choline). Br. J. Pharmacol. 12, 176, 1957.
- 3061 ERSPAMER, V. and GLAESSER, A.
The pharmacological actions of some murexine-like substances. Br. J. Pharmacol. 13, 373, 1958.
- 3062 ERSPAMER, V. and GLAESSER, A.
The action of eledoisin on the systemic arterial blood pressure of some experimental animals. Br. J. Pharmacol. 20, 516, 1963.
- 3063 ERSPAMER, V., BERTACCINI, G. and CEI, J.M.
Occurrence of an eledoisin-like polypeptide (physalaemin) in skin extracts of Physalaemus fuscumaculatus. Experientia 18, 562, 1962.
- 3064 ERSPAMER, V., BORETTI, G. and BARI, V.
Substances of a phenolic and indolic nature present in acetone extracts of the posterior salivary glands of octopods (Octopus vulgaris, Octopus macropus and Eledone moschata). Experientia 7, 271, 1951.
- 3065 EVANS, M.H.
Paralytic effects of "paralytic shellfish poison" on frog nerve and muscle. Br. J. Pharmacol. 22, 478, 1964.
- 3066 EVANS, M.H.
Cause of death in experimental paralytic shellfish poisoning (PSP). Br. J. exp. Path. 46, 245, 1965.
- 3067 EVANS, M.H.
Block of sensory nerve conduction in the cat by mussel poison and tetrodotoxin. In, Animal Toxins. Russell, F.E. and Saunders, P.R. (eds.), Pergamon: Oxford, p. 97, 1967.
- 3068 EVANS, M.H.
Differences between the effects of saxitoxin (paralytic shellfish poison) and tetrodotoxin on the frog neuromuscular junction. Br. J. Pharmacol. 36, 426, 1969.
- 3069 EVANS, M.H.
The effects of saxitoxin and tetrodotoxin on nerve conduction in the presence of lithium ions and of magnesium ions. Br. J. Pharmacol. 36, 418, 1969.
- 3070 EVANS, M.H.
Mechanism of saxitoxin and tetrodotoxin poisoning. Br. med. Bull. 25, 263, 1969.
- 3071 EVANS, M.H.
Paralytic shellfish poisoning in Britain. Mar. Pollut. Bull. 1, 184, 1970.
- 3072 EVANS, M.H.
Comparison of the actions of saxitoxin on the motor end-plate of frog muscle. Br. J. Pharmacol. 43, 681, 1971.
- 3073 EVANS, M.H.
A comparison of the biological effects of paralytic shellfish poisons from clam, mussel and dinoflagellate. Toxicon 9, 139, 1971.
- 3074 FALLON, W.E. and SHIMIZU, Y.
Electrophoretic analysis of paralytic shellfish toxins. J. environ. Sci. Hlth. A12, 455, 1977.
- 3075 FÄNGE, R.
An acetylcholine-like salivary poison in the marine gastropod Neptunea antiqua. Nature 180, 196, 1952.
- 3076 FÄNGE, R.
Paper chromatography and biological effects of extracts of the salivary gland of Neptunea

- antiqua* (Gastropoda). Acta Zool. 39, 39, 1958.
- 3077 FÄNGZ, R. The salivary gland of *Neptunea antiqua*. Ann. N.Y. Acad. Sci. 90, 689, 1960.
- 3078 FARRAR, J. Case of mussel-poisoning recovery. Br. med. J. (1), 939, 1882.
- 3079 FAUST, E.S. Die Tierischen Gifte. F. Vieweg & Sohn: Braunschweig, 248p., 1906.
- 3080 FELSING, W.A., JR., editor. Proceedings of the Joint Sanitation Seminar on North Pacific Clams. Govt. Print. Off.: Washington, 1965.
- 3081 FIGUERAS, A. La militoxina causa de la toxicidad temporal de los mejillones. Inst. Invest. Pesqueras, Barcelona (Spain), 27, 1977.
- 3082 FINGERMAN, M., FORESTER, R.H. and STOVER, J.H., JR. Action of shellfish poison on peripheral nerve and skeletal muscle. Proc. Soc. exp. Biol. 84, 643, 1953.
- 3083 FISH, C.J. and COBB, M.C. Noxious Marine Animals of the Central and Western Pacific Ocean. U.S. Fish Wildl. Serv. Res. Rep. (36), 1954.
- 3084 FISHER, A.A. Atlas of Aquatic Dermatology. Grune & Stratton: N.Y., 112p., 1978.
- 3085 FISSINGER, N. and RAVINA, A. Les intoxications par les moules comestibles (*Mytilus edulis*). Ann. Med. 17, 235, 1925.
- 3086 FLECKER, H. and COTTON, B.C. Fatal bites from octopus. Med. J. Aust. (2), 329, 1955.
- 3087 FLEIG, C. and DE ROUVILLE, E. Origine intraglandulaire des produits toxiques des céphalopodes pour les crustacés. C.R. Soc. Biol. 69, 502, 1910.
- 3088 FLURY, F. Über das Aplysiengift. Arch. exp. Pathol. Pharmacol. 79, 250, 1915.
- 3089 FORSTER, G.R. Mortality of the bottom fauna and fish in St. Austell Bay and neighbouring areas. J. mar. Biol. Assoc. U.K. 59, 517, 1979.
- 3090 FOWLER, L.H. Shellfish poison. Nat. Hist. 51, 228, 1943.
- 3091 FRAGA, S. and SANCHEZ, F.J. A bloom of *Aphidinium* sp. in the Ria de Vigo (N.W. of Spain). In, Toxic Dinoflagellate Blooms. (Proc. 2nd Intern. Conf.), Taylor, D.L. and Seliger, H.H. (eds.), Elsevier/North-Holland: N.Y., vol. 1, p. 165, 1979.
- 3092 FRASER, S.M. Mortality of shags and other sea birds caused by paralytic shellfish poison. Nature 220, 23, 1968.
- 3093 FREEMAN, S. The pharmacology of *Octopus maculosus* Hoyle venom. Simp. Intern. Venom. Anim., Sao Paulo, p. LII, 1966 (Abst.).
- 3094 FREEMAN, S.E. and TURNER, R.J. Maculotoxin, a potent toxin secreted by *Octopus maculosa* Hoyle. Toxicol. appl. Pharmacol. 16, 681, 1970.
- 3095 FREEMAN, S.E. and TURNER, R.J. A myotoxin secreted by some piscivorous *Conus* species. Br. J. Pharmacol. 46, 329, 1972.
- 3096 FREEMAN, S.E., TURNER, R.J. and SILVA, S.R. The venom and venom apparatus of the marine gastropod *Conus striatus* Linne. Toxicon 12, 587, 1974.
- 3097 FRETTER, V. and GRAHAM, A. Observations on the

- opisthobranch mollusc Aceton tornatilis (L.). J. mar. Biol. Assoc. U.K. 33, 565, 1954.
- 3098 FRIEDLÄNDER, P. Über den Farbstoff antiken Purpurs aus Murex brandaris. Ber. Dtsch. Chem. Ges. 42, 765, 1909.
- 3099 FRIEDLÄNDER, P. Über die Farbstoffe aus Purpura aperta und Purpura lapillus. Ber. Deut. chem. Ges. 55, 1655, 1922.
- 3100 FUHRMAN, F.A., FUHRMAN, G.J. and DE RIEMER, K. Toxicity and pharmacology of extracts from dorid nudibranches. Biol. Bull. 156, 289, 1979.
- 3101 FUJIWARA, E. [Study on food poisoning caused by the consumption of fresh squid.] Sogo Igaku 13, 719, 1956.
- 3102 FUKUYO, Y. Theca and cyst of Gonyaulax excavata (Braarud) Balech found at Ofunato Bay, Pacific coast of northern Japan. In, Toxic Dinoflagellate Blooms. Taylor, D.L. and Seliger, H.H. (eds.), Elsevier/North-Holland: N.Y., vol. 1, p. 61, 1979.
- 3103 FURK, D.M. Shellfish poisoning. Fish. Res. Bd. Can. Prog. Rept., Pac. Sta. (82), 3p., 1950.
- 3104 FÜRTH, O., VON. Tiersiche Gifte. In, Vergleichende chemische Physiologie der niederen Tiere. G. Fischer: Jena, p. 304, 1903.
- 3105 GAGE, P.W. and DULHUNTY, A.F. Effects of toxin from the blue-ringed octopus (Hapalochlaena maculosa). In, Marine Pharmacognosy. Action of Marine Poisons at the Cellular Level. Martin, D.F. and Padilla, G.M. (eds.), Academic: N.Y., p. 85, 1973.
- 3106 GARNET, J.R. Venomous Australian Animals Dangerous to Man. Commonwealth Serum Laboratories: Parkville, Australia, 88p., 1958.
- 3107 GARRETT, A. Annotated catalogue of the species of Conus collected in the South Sea Islands. Q. J. Conchy. 1, 353, 1874-1878.
- 3108 GATES, J.A. and WILSON, W.B. The toxicity of Gonyaulax monilata Howell to Mugil cephalus. Limnol. Oceanogr. 5, 171, 1960.
- 3109 GEMMILL, J.S. and MANDERSON, W.G. Neurotoxic mussel poisoning. Lancet (2), 307, 1960.
- 3110 GENNARO, J.F., JR., BREWSTER, H.B. and YAHNKE, S.J. Structure and observations on the function of the poison apparatus of the octopus. Anat. Rec. 142, 234, 1962.
- 3111 GENNARO, J.F., JR., LORINCZ, A.E. and BREWSTER, H.B. The anterior salivary gland of the octopus (Octopus vulgaris) and its mucous secretion. Ann. N.Y. Acad. Sci. 118, 1021, 1965.
- 3112 GERSHEY, R.M., NEVE, R.A., MUGROVE, D.L. and REICHARDT, P.B. A colorimetric method for the determination of saxitoxin. J. Fish. Res. Bd. Can. 34, 559, 1977.
- 3113 GESSNER, O. Tierische Gifte. In, Handbuch der experimentellen Pharmakologie. Julius Springer: Berlin, vol. 6, p. 61, 1938.
- 3114 GHIRETTI, F. Sull'azione di estratti di ghiandole salivari posteriori di octopodi sui crostacei. Boll. Soc. Ital. Biol. sper. 25, 1304, 1949.
- 3115 GHIRETTI, F. Enzimi delle ghiandole salivari posteriori dei cefalopodi. II. Attività proteolitica del secreto. Boll. Soc. Ital. Biol. sper. 26, 779, 1950.

- 3116 GHIRETTI, F. Les excitants chimiques de la sécrétion salivaire chez les céphalopodes octopodes. Arch. intern. Physiol. 61, 10, 1953.
- 3117 GHIRETTI, F. Enteramina, octopamina e tiramina nelle secrezioni esterna e interna delle ghiandole salivari posteriori dei cefalopodi octopodi. Arch. Sci. biol. (Bologna) 37, 435, 1953.
- 3118 GHIRETTI, F. Cephalotoxin: the crab-paralysing agent of the posterior salivary glands of cephalopods. Nature 183, 1192, 1959.
- 3119 GHIRETTI, F. Toxicity of octopus saliva against crustacea. Ann. N.Y. Acad. Sci. 90, 726, 1960.
- 3120 GIBBARD, J., COLLIER, F.C. and WHYTE, E.F. Mussel poisoning. Can. J. pub. Hlth. 30, 193, 1939.
- 3121 GIBBARD, J. and NAUBERT, J. Paralytic shellfish poisoning on the Canadian Atlantic coast. Am. J. pub. Hlth. 38, 500, 1948.
- 3122 GIBBS, F.J. and GREENAWAY, P. Histological structure of the posterior salivary glands in the blue-ringed octopus Hapalochlaena maculosa. Toxicon 16, 59, 1978.
- 3123 GILFILIAN, E.S. Effects of paralytic shellfish poisoning toxin on the behavior and physiology of marine invertebrates. In, Proceedings of the First International Conference on Toxic Dinoflagellate Blooms. LoCicero, V.R. (ed.), Mass. Sci. Tech. Found.: Wakefield, Mass., p. 367, 1975.
- 3124 GILLET, K. and MC NEIL, F. The Great Barrier Reef and Adjacent Isles. Coral Reef Press: Sydney, Australia, 209p., 1962.
- 3125 GIULIANO, O. Sulla natura degli estratti acetonicici di ghiandole salivari e di altri organi e tessuti di seppia (ricerche preliminari). Arch. Sci. biol. (Bologna) 28, 404, 1942.
- 3126 GLASER, O.C. The nematocysts of nudibranch molluscs. Johns Hopkins Univ. Circ. 22, 22, 1903.
- 3127 GLASER, O.C. and SPARROW, C.M. The physiology of nematocysts. J. exp. Zool. 6, 361, 1909.
- 3128 GRAHAM, A. Molluscan diets. Proc. malac. Soc. London 31, 144, 1955.
- 3129 GRAY, J.E. On the head of the genus Conus Linn. Ann. Mag. nat. Hist. 12, 178, 1853.
- 3130 GRAY, W.R., LUQUE, A., OLIVERA, B.M. and CRUZ, L.J. Muscle-relaxing peptides from Conus venoms. Fed. Proc. 36, 684, 1977.
- 3131 GRELIS, M.E. and TABACHNICK, I.I. The enzymatic hydrolysis of imidazoleacryloycholine (murexine) and imidazolepropionylcholine (dihydromurexine) by various cholinesterases. Br. J. Pharmacol. 12, 320, 1957.
- 3132 GRIFFITHS, A.B. The poisoning of a family by mussels. Chem. News 62, 17, 1890.
- 3133 GRIFFITHS, A.B., DENNIS, R. and POTTS, G.W. Mortality associated with a phytoplankton bloom off Penzance in Mounts Bay. J. mar. Biol. Assoc. U.K. 59, 520, 1979.
- 3134 GROSCH, K.J. A poisonous pelecypod. Hawaiian Shell News, p. 6, 1963.
- 3135 GRYNFELTT, E. Sur la glande hypobranchiale de Murex trunculus. Biblio. anat. 21, 181, 1911.
- 3136 GRYNFELTT, E. Sur la genèse des boules picriphiles dans la glande

- hypobranchiale de Murex trunculus. Bull. Mens. Acad. Sci. Lett. Montpellier 5, 119, 1913.
- 3137 GSELL, O. Über Muschelvergiftungen. In, Bericht über die Tätigkeit der St. Gallischen naturwissenschaftlichen Gesellschaft während des Vereinsjahres 1897-1898. Dr. Wartmann (ed.), Zollikofer'sche Buchdruckerei: St. Gallen, p. 252, 1899.
- 3138 GUNTER, G., SMITH, F., WALTON-SMITH, G. and WILLIAMS, R.H. Mass mortality of marine animals on the lower west coast of Florida, November 1946-January 1947. Science 105, 256, 1947.
- 3139 HAHN, R. and STRICHARTZ, G. Hydrogen bonding and the saxitoxin-sodium channel interaction. Fed. Proc. 39, 2065, 1980.
- 3140 HALL, S., NEVE, R.A., REICHARDT, P.B. and SWISHER, G.A., JR. Chemical analysis of paralytic shellfish poisoning in Alaska. Toxic Dinoflagellate Blooms. (Proc. 2nd Intern. Conf.), Taylor, D.L. and Seliger, H.H. (eds.), Elsevier/North-Holland: N.Y., vol. 1, p. 345, 1979.
- 3141 HALLEN, A.H. Poisoning by the bite of Conus geographus. Nautilus 27, 117, 1914.
- 3142 HALSTEAD, B.W. Octopus bites in human beings. Leaflet Malacol. 1, 17, 1949.
- 3143 HALSTEAD, B.W. Animal phyla known to contain poisonous marine animals. In, Venoms. Buckley, E.E. and Porges, N. (eds.), A.A.A.S.: Washington, p. 9, 1956.
- 3144 HALSTEAD, B.W. Venomous molluscs. Ann. Rept. Am. Malacol. Union Bull. (23), 1956.
- 3145 HALSTEAD, B.W. Dangerous Marine Animals. Cornell Maritime Press: Cambridge, 1959.
- 3146 HALSTEAD, B.W. Poisonous and Venomous Marine Animals of the World, Vol. 1, Invertebrates. U.S. Govt. Print. Off.: Washington, 663p., 1965.
- 3147 HALSTEAD, B.W. Venomous marine animals of Brazil. Mem. Inst. Butantan Simp. Internac. 33, 1, 1966 (publ. 1968).
- 3148 HALSTEAD, B.W. Poisonous and Venomous Marine Animals of the World. Rev. edit., Darwin Press: Princeton, N.J., 238p., 1978.
- 3149 HALSTEAD, B.W. Shellfish emotionism. Clin. Toxicol. 9, 1, 1976.
- 3150 HALSTEAD, B.W. and RUSSELL, F.E. Toxic marine organisms. In, Handbook of Biological Data. Spector, W.S. (ed.), F.A.S.E.B.: Washington, p. 424, 1956.
- 3151 HALSTEAD, B.W., CARSCALLEN, L.J. and RUSSELL, F.E. Animal toxins. Part III. Marine organisms. In, Biology Data Book. Altman, P.L. and Dittmer, D.S. (eds.), F.A.S.E.B.: Washington, p. 336, 1964.
- 3152 HANSEN BAY, C.M. and STRICHARTZ, G.R. Ion and drug interactions at the saxitoxin binding site. Biophys. J. 21, 207, 1978.
- 3153 HARTMAN, W.J., CLARK, W.G., CYR, S.C., JORDON, A.L. and LIEBHOLD, R.A. Pharmacologically active amines and their biogenesis in the octopus. Proc. West. pharmacol. Soc. 3, 106, 1960.
- 3154 HASHIMOTO, Y. [Toxins of the Gonyaulax sp. and infested

- bivalves in Owase Bay.] Nihon Suisan-Gakki Shi 42, 851, 1976.
- 3155 HASHIMOTO, Y. Marine Toxins. Univ. Tokyo Press: Tokyo, 1977.
- 3156 HASHIMOTO, Y. Marine Toxins and Other Bioactive Marine Metabolites. Jpn. Sci. Soc.: Tokyo, 369p., 1979.
- 3157 HASHIMOTO, Y. and KAMIYA, H. Food chain hypotheses on the origin of marine toxins. Bull. Jpn. Soc. scient. Fish. 36, 425, 1970.
- 3158 HASHIMOTO, Y. and MIGITA, M. [On the shellfish poisons. I. Inadequacy of acidulated alcohols with hydrochloric acid as a solvent.] Bull. Jpn. Soc. scient. Fish. 16, 77, 1950.
- 3159 HASHIMOTO, Y. and TSUTSUMI, J. Isolation of a photodynamic agent from the liver of abalone, Haliotis discus Hannai. Bull. Jpn. Soc. scient. Fish. 27, 859, 1961.
- 3160 HASHIMOTO, Y., KANNA, K. and SHIOKAWA, A. [On shell-fish poisons. II. Paralytic poison. Bull. Jpn. Soc. scient. Fish.] 15, 771, 1950.
- 3161 HASHIMOTO, Y., NAITO, K. and TSUTSUMI, J. Photosensitization of animals by the viscera of abalones, Haliotis sp. Bull. Jpn. Soc. scient. Fish. 26, 1216, 1960.
- 3162 HASHIMOTO, Y., NOGUCHI, T. and ADACHI, R. Occurrence of toxic bivalves in association with the bloom of Gonyaulax sp. in Owase Bay. Bull. Jpn. Soc. scient. Fish. 42, 671, 1976.
- 3163 HASHIMOTO, Y., KONOSU, S., SHIBOTA, M. and WATANABE, K. Toxicity of a turban-shell in the Pacific. Bull. Jpn. Soc. scient. Fish. 36, 1163, 1970.
- 3164 HASHIMOTO, Y., MIYAZAWA, K., KAMIYA, H. and SHIBOTA, M. Toxicity of the Japanese ivory shell. Bull. Jpn. Soc. scient. Fish. 33, 661, 1967.
- 3165 HATTA, S., ITAI, T. and MIYAMOTO, H. [Studies on Lake Hamana oyster and other shellfish for poisonous substances.] Bull. natn. Hyg. Lab. Jpn. (69), 283, 1956.
- 3166 HATTORI, Y. and AKIBA, T. [Studies on the toxic substance in Asari (Venerupis semidecussata). II. Detection of toxic shellfish.] J. pharm. Soc. Jpn. 72, 572, 1952.
- 3167 HATTORI, Y., AKIBA, T., FUJI, S., NAGAHAYASHI, K. and AKIBA, K. [Study of poison of Venerupis semidecussata and Ostrea gigas. Rept. I. Chemical study of poisonous substance.] J. hyg. chem. Soc. Jpn. 16, 60, 1944.
- 3168 HAYASHI, E. and YAMADA, S. Pharmacological studies on surugatoxin, the toxic principle from Japanese ivory mollusc (Babylonia japonica). Br. J. Pharmacol. 53, 207, 1975.
- 3169 HAYASHI, E., YAMADA, S. and KATO, M. Effect of surugatoxin on celiac ganglia in cats. Folia Pharmacol. Jpn. 73, 657, 1977.
- 3170 HAYES, M. Seasonal and geographic distribution of toxin in Alaska and British Columbia clams. In, Proceedings of the Joint Sanitation Seminar on North Pacific Clams. Felsing, W.A. (ed.), Govt. Print. Off.: Washington, p. 5, 1965.
- 3171 HEATH, H. Poisonous mussels. Nautilus 42, 139, 1929.
- 3172 HELLWIG, E. and PETUELY, F. Determination of saxitoxin in canned shellfish. Z. Lebensmittelunters. u.-Forsch. 171, 155, 1980.

- 3173 HEMINGWAY, G.T. Evidence for a paralytic venom in the intertidal snail, *Acanthina spirata* (Neogastropoda: Thaisidae). Comp. Biochem. Physiol. 600, 79, 1978.
- 3174 HENZE, M. Chemische-physiologische Studien an den Speicheldrüsen der Kephelopoden: Das Gift und die stickstoffhaltigen Substanzen des Sekretes. Zentr. Physiol. 19, 986, 1906.
- 3175 HENZE, M. Über das Vorkommen des Betains der Cephalopoden. Hoppe-Seyler's Z. physiol. Chem. 70, 253, 1910.
- 3176 HENZE, M. P-oxyphenyläthylamn, das Speicheldrüsegift der Cephalopoden. Hoppe-Seyler's Z. physiol. Chem. 87, 51, 1913.
- 3177 HENZE, M. Über den Tyramin- und Tyrosingehalt der Speicheldrüse der Cephalopoden. Zugleich Methodisches zur Mikrobestimmung der beiden Substanzen. Hoppe-Seyler's Z. physiol. Chem. 182, 227, 1929.
- 3178 HERMITTE, L.C. Venomous marine molluscs of the genus *Conus*. Trans. Roy. Soc. trop. Med. Hyg. 39, 485, 1946.
- 3179 HILL, E.B. A case of death from mussel poisoning. Br. med. J. (1), 301, 1895.
- 3180 HILL, W.H. The occurrence and etiology of paralytic shellfish poisoning; I. A review (1790 to 1952). Minutes Pac. Coast Shellfish Comm., January 1953. Appendix I. Br. Columbia Dept. Hlth., Victoria, B.C.
- 3181 HINEGARDNER, R.T. Morphology of the venom apparatus of *Conus*. Thesis, Univ. South. Calif., Los Angeles, 1957.
- 3182 HINEGARDNER, R.T. The venom apparatus of the cone shell. Hawaii med. J. 17, 533, 1958.
- 3183 HIRANO, T. [On the water exchange and the current in Hamana Lake in relation to occurrences of toxic shellfish.] Bull. Jpn. Soc. scient. Fish. 20, 783, 1955.
- 3184 HOLMSTEDT, B. and WHITTAKER, V.P. Pharmacological properties of $\beta\beta$ -diamethylacryloylcholine and some other β -substituted acryloylcholines. Br. J. Pharmacol. 13, 308, 1958.
- 3185 HOPKINS, D.G. Venomous effects and treatment of octopus bites. Med. J. Aust. (3), 81, 1964.
- 3186 HORNEILL, J. The edible molluscs of the Madras Presidency. Madras fish. Investigations 1917. Madras Fish. Bull. (XI), 51p., 1918.
- 3187 HOWDEN, M.E.H. and WILLIAMS, P.A. Occurrence of amines in the posterior salivary glands of the octopus *Hapalochlaena maculosa* (Cephalopoda). Toxicon 12, 317, 1974.
- 3188 HSU, C.P., MARCHAND, A., SHIMIZU, Y. and SIMS, G.G. Paralytic shellfish toxins in the sea scallop *Placopecten magellanicus* in the Bay of Fundy. J. Can. Fish. Res. Bd. 36, 32, 1979.
- 3189 HUANG, C.L. and MIR, G.N. Pharmacological investigation of salivary gland of *Thais haemastoma* (Clench). Toxicon 10, 111, 1972.
- 3190 HUBERT, B. Giftige Mollusken. Chronica Nat. 104, 175, 1948.
- 3191 HUGHES, J.M. Epidemiology of shellfish poisoning in the United States, 1971-1977. In, Toxic Dinoflagellate Blooms. (Proc. 2nd Intern. Conf.), Taylor, D.L.

- and Seliger, H.H. (eds.), Elsevier/North-Holland: N.Y., vol. 1, p. 23, 1979.
- 3192 HUGHES, J.M. and MERSON, M.H. Fish and shellfish poisoning. New Engl. J. Med. 295, 1117, 1976.
- 3193 HUGHES, J.M., MERSON, M.H. and GANGAROSA, E.J. When friends or patients ask about ... the safety of eating shellfish. J.A.M.A. 237, 1980, 1977.
- 3194 HUMPHREYS, F.A. and GIBBONS, R.J. Deaths of mink, probably paralytic shellfish poisoning. Can. J. comp. Med. 5, 84, 1941.
- 3195 HUNT, D., TUFTS, N. and HUGHES, J. Monitoring programs and epidemiology. In, Toxic Dinoflagellate Blooms. Taylor, D.L. and Seliger, H.H. (eds.), Elsevier/North-Holland: N.Y., vol. 1, p. 489, 1979.
- 3196 HUTNER, S.H. and MC LAUGHLIN, J.J.A. Poisonous tides. Scient. Am. 199, 92, 1958.
- 3197 HUTTON, R.F. Marine dermatosis. Notes on "seabather's eruption" with Creseis acicula Rang (Mollusca: Pteropoda) as the cause of a particular type of sea sting along the west coast of Florida. Arch. Derm. 82, 951, 1960.
- 3198 HYDE, I.H. Beobachtungen über die Secretion der sogenannten Speicheldrüsen von Octopus macropus. Z. Biol. 35, 459, 1897.
- 3199 IDYLL, C.P. Marine sciences. Fed. Proc. 31, TF121, 1972.
- 3200 IIOKA, K., TANIFUJI, K. and KUMAGAI, S. [Studies on poisoning caused by Chlamys nipponensis akazara Kuroda.] J. food hyg. Soc. Jpn. 3, 284, 1962.
- 3201 IIOKA, K., ISHIMODA, S., NAKANO, W. and NGAMURA, M. [Studies on toxicity of shellfish (Chlamys nipponensis akazara Kuroda).] J. food hyg. Soc. Jpn. 4, 260, 1963.
- 3202 IIOKA, K., NAKANO, W., ISHIMODA, S., NAGAYAMA, K. and SATO, T. [Studies on toxicity of shellfish (Chlamys nipponensis akazara Kuroda). II. Change of its toxicity during 1963.] J. food hyg. Soc. Jpn. 5, 391, 1964.
- 3203 IMBERT, J.C., ESSAID EL FEYDI, A. and KADIRI, A. L'intoxication mytilique ou intoxication paralytique par les fruits de mer. Sem. Hop. Paris 55, 1139, 1979.
- 3204 INGHAM, H.R., MASON, J. and WOOD, P.C. Distribution of toxin in molluscan shellfish following the occurrence of mussel toxicity in north-east England. Nature 220, 25, 1968.
- 3205 INGHAM, H.R., MASON, J. and WOOD, P.C. Mussels not for eating. Nature 220, 628, 1968.
- 3206 IREDALE, T. Fatal case of attack by a cone. Nautilus 49, 41, 1935; see also J. Conchy. 20, 166, 1935.
- 3207 IRIE, T., SUZUKI, M. and HAYAKAWA, Y. Isolation of aplysin, debromoaplysin, and aplysinol from Laurencia okamurai Yamada. Bull. chem. Soc. Jpn. 42, 843, 1969.
- 3208 ISGROVE, A. Elecone. Mem. Liverpool mar. Biol. Comm. 18, 105, 1909.
- 3209 ISHIDATE, M. and HAGIWARA, H. [On the poisonous substance isolated from asari (Venerupis semidecussata) and oyster.] Exp. Rept., Dept. nat. Sci., Univ. Tokyo 10, 43, 1954.

- 3210 ITAI, T. and KAMIYA, S. [Studies on Lake Hamana oyster and other shellfish for poisonous substance. II.] Bull. natn. Hyg. Lab. Jpn. 74, 283, 1956.
- 3211 ITOH, K. [Poisoning following ingestion of the gastropod, Neptuna arthritica.] Yumehamaguri 78, 32, 1954.
- 3212 JAECKEL, S. Über Vergiftungen durch Conus-arten (Gastro. pros.) mit einem Beitrag zur Morphologie und Physiologie ihres Giftapparates. Zool. Anz. 149, 206, 1952.
- 3213 JAMES, M.J. The comparative morphology of Conus radulae: observations with scanning electron microscopy. Biol. Prog. 32, 98, 1978.
- 3214 JARVIS, M.W., CRONE, H.D., FREEMAN, S.E. and TURNER, R.J. Chromatographic properties of maculotoxin, a toxin secreted by Octopus (Hapalochlaena) maculosus. Toxicon 13, 177, 1975.
- 3215 JOHANNES, R.E. A poison-secreting nudibranch (Mollusca: Ophisthobranchia). Veliger 5, 104, 1963.
- 3216 JOHNSON, H.M. and MULBERRY, G. Paralytic shellfish poison: serological assay by passive haemagglutination and bentonite flocculations. Nature 211, 747, 1966.
- 3217 JOHNSON, H.M., FREY, P.A., ANGELOTTI, R., CAMPBELL, J.E. and KEITH, H.L. Haptenic properties of paralytic shellfish poison conjugated to proteins by formaldehyde treatment. Proc. Soc. exp. Biol. Med. 117, 425, 1964.
- 3218 JOHNSON, M.Y. and SNOOK, H.J. Seashore Animals of the Pacific Coast. Macmillan: N.Y., 659p., 1927.
- 3219 JOHNSON, G. An Introduction to Conchology. Or, Elements of the Natural History of Molluscan Animals. J. Van Voorst: London, 1850.
- 3220 JOHNSTON, D.G. and BURGER, W.D. Injury and disease of scuba and skin divers. Postgrad. Med. 49, 134, 1971.
- 3221 JONES, E.C. Tremoctopus violaceus uses Physalia tentacles as weapons. Science 139, 764, 1963.
- 3222 JORDAN, E.O. Food Poisoning and Food-borne Infection. Univ. Chicago Press: Chicago, p. 26, 1931.
- 3223 JOUBIN, L. Anatomy and histology of the salivary glands in the Cephalopoda. Ann. Mag. nat. Hist. 5, 251, 1887; see also C.R. Acad. Sci. 105, 177, 1887.
- 3224 JOUBIN, L. Recherches sur la morphologie comparée des glandes salivaires. Arch. Zool. exp. gén. Suppl., 2, 66, 1887.
- 3225 JULLIEN, A. Sur l'absence de cholinestérase dans la glande à pourpre des Murex et sa signification. C.R. Acad. Sci. 209, 1015, 1939.
- 3226 JULLIEN, A. Variations dans le temps de la teneur des extraits de glande à pourpre en substances actives sur le muscle de Sangsue. C.R. Soc. Biol. 133, 524, 1940.
- 3227 JULLIEN, A. Recherches sur les constituants et les propriétés de la pourpre. Ann. Sci. Franche-Comté, Litt. 37p., 1946.
- 3228 JULLIEN, A. La substance toxique de la glande à pourpre est-elle un dérivé de la choline. C.R. Soc. Biol. 142, 101, 1948.
- 3229 JULLIEN, A. Recherches sur les fonctions de la glande hypobranchiale chez Murex trunculus. C.R. Soc. Biol. 142, 102, 1948.

- 230 JULLIEN, A. and BONNET, A. Action de la cholinestérase sur l'extrait de glande à pourpre de Murex trunculus. C.R. Acad. Sci. 212, 813, 1941.
- 231 JULLIEN, A. and BONNET, A. Toxicité de la pourpre en rapport avec la présence des substances à action stimulante sur le muscle de Sangsue. C.R. Acad. Sci. 212, 932, 1941.
- 232 JULLIEN, A. and GIBAUT, R. Sur les variations de l'excitabilité du nerf et du muscle provoquées par les constituants des extraits de la glande hypobranchiale des Murex. C.R. Acad. Sci. 224, 215, 1947.
- 233 JULLIEN, A. and RIPPLINGER, J. Sur quelques propriétés remarquables de l'extrait de glande hypobranchiale chez Murex erinaceus. C.R. Acad. Sci. 226, 1470, 1948.
- 234 JULLIEN, A. and RIPPLINGER, J. L'extrait desséché de glande à pourpre de Murex trunculus et son action biologique. Bull. Soc. Hist. nat. Doubs. 53, 29, 1950.
- 235 JULLIEN, A. and VINCENT, D. Les esters de la choline dans quelques organes des mollusques. C.R. Acad. Sci. 206, 1145, 1938.
- 236 JULLIEN, A., GARABEDIAN, M.D. and GIBAUT, R. Observations relatives aux propriétés pharmacologiques des constituants de la pourpre chez Murex trunculus. C.R. Soc. Biol. 135, 1636, 1941.
- 237 JULLIEN, A., JACQUEMAIN, R. and RIPPLINGER, J. Sur quelques propriétés de la glande à pourpre desséchée et vieillie chez Murex trunculus. C.R. Acad. Sci. 227, 1174, 1948.
- 238 JULLIEN, A., VINCENT, D. and GIBAUT, R. Sur l'existence, dans la glande à pourpre de Murex brandaris, d'un complexe libérant par chauffage des substances actives sur le muscle de Sangsue. C.R. Soc. Biol. 135, 1634, 1941.
- 3239 JULLIEN, A., CARDOT, J., JOLY, M. and VERNEAUX, J. Toxicité comparée de la glande hypobranchiale fraîche de Murex trunculus et de la glande desséchée et vieille chez quelques poissons d'eau douce. J. Physiol. Path. gén. 53, 382, 1961.
- 3240 JULLIEN, A., CARDOT, J., JOLY, M. and VERNEAUX, J. Sur la toxicité chez le Gardon blanc (Leuciscus rutilus L.) de glande hypobranchiale de Murex trunculus L. en fonction de sa concentration pour un poids constant d'animal. C.R. Soc. Biol. 55, 518, 1961.
- 3241 JULLIEN, A., RIPPLINGER, J., LAURENT, P. and SAGET, G. Action de la dessiccation et du vieillissement sur les propriétés physiologiques de la glande hypobranchiale chez les Murex. Ann. Sci. Franche-Comté, Zool. 4, 25, 1949.
- 3242 KAISER, E. and MICHL, H. Die Biochemie der tierischen Gifte. F. Deuticke: Wien, p. 69, 1958.
- 3243 KAKIMOTO, K. and ARMSTRONG, M.D. Identification of octopamine in animals treated with monoamine oxidase inhibitors. Fed. Proc. 19, 295, 1960.
- 3244 KAMIYA, H. and HASHIMOTO, Y. Occurrence of saxitoxin and related toxins in Palauan bivalves. Toxicon 16, 303, 1978.
- 3245 KANNA, K. and HIRAI, M. On the toxicity of Neptunea intersulpta Sowerby. Lecture Ann. Mtg., Jpn. Soc. scient. Fish., Tokyo, 1956.

- 3246 KANNO, K. [Distribution of toxins in molluscs associated with coral reefs.] Nihon Suisan-Gakki Shi 42, 1395, 1976.
- 3247 KANNO, K. [Occurrence of toxins resembling ciguatoxin, scaritoxin and maitotoxin in a turban shell.] Nihon Suisan-Gakki Shi 42, 1399, 1976.
- 3248 KANNO, K., KOTAKI, Y. and YASUMOTO, T. Distribution of toxins in mollusks associated with coral reefs. Bull. Jpn. Soc. scient. Fish. 42, 1395, 1976.
- 3249 KAO, C.Y. Tetrodotoxin, saxitoxin and their significance in the study of excitation phenomena. Pharmacol. Rev. 18, 997, 1966.
- 3250 KAO, C.Y. Comparison of the biological actions of tetrodotoxin and saxitoxin. In, Animal Toxins. Russell, F.E. and Saunders, P.R. (eds.), Pergamon: Oxford, p. 109, 1967.
- 3251 KAO, C.Y. and FUHRMAN, F.A. Differentiation of the actions of tetrodotoxin and saxitoxin. Toxicol. 5, 25, 1967.
- 3252 KAO, C.Y. and NISHIYAMA, A. Actions of saxitoxin on peripheral neuromuscular systems. J. Physiol. 180, 50, 1965.
- 3253 KAO, C.Y. and NISHIYAMA, A. Similarity of the actions of tetrodotoxin and saxitoxin on the excitable membrane. Fed. Proc. 24, 649, 1965.
- 3254 KARLING, T.G. On nematocysts and similar structures in turbellarians. Acta Zool. fenn. 116, 3, 1966.
- 3255 KARLSSON, E. Chemistry of some potent animal toxins. Experientia 29, 1319, 1973.
- 3256 KAT, M. The occurrence of Prorocentrum sp. and coincidental gastro-intestinal illness of mussel consumers. In, Toxic Dinoflagellate Blooms. (Proc. 2nd Intern. Conf.), Taylor, D.L. and Seliger, H.H. (eds.), Elsevier/North-Holland: N.Y., vol. 1, p. 215, 1979.
- 3257 KAT, M. Preliminary note on dinoflagellate cysts in the Oosterschelde, the Netherlands, in relation to shellfish poisoning. Aquaculture 21, 97, 1980.
- 3258 KATO, Y. and SCHEUER, P.J. Aplysiatoxin and debromoaplysiatoxin, constituents of the marine mollusk Stylocheilus longicauda (Quoy and Gaimard, 1824). J. Am. chem. Soc. 96, 2245, 1974.
- 3259 KATO, Y. and SCHEUER, P. The aplysiatoxins. Pure appl. Chem. 41, 1, 1975.
- 3260 KATO, Y. and SCHEUER, P. The aplysiatoxin: reactions with acid and oxidants. Pure appl. Chem. 48, 29, 1976.
- 3261 KAWABATA, T. [Recent information regarding cuttlefish poisoning.] Gaku Sui 4, 106, 1955.
- 3262 KAWABATA, T. Fish-borne food poisoning in Japan. In, Fish as Food. Borgstrom, G. (ed.), Academic: N.Y., vol. 2, p. 467, 1962.
- 3263 KAWABATA, T. Problems involved in the research on fish and shellfish poisonings. Jpn. J. med. Sci. Biol. 15, 141, 1962.
- 3264 KAWABATA, T., HALSTEAD, B.W. and JUDEFIND, T.F. A report of a series of recent outbreaks of unusual cephalopod and fish intoxication in Japan. Am. J. trop. Med. Hyg. 6, 935, 1957.
- 3265 KAWABATA, T., YOSHIDA, T. and KUBOTA, Y. Paralytic shellfish

- poison. I. A note on the shellfish poisoning that occurred in Ofunato City, Iwate Prefecture in May 1961. Bull. Jpn. Soc. scient. Fish. 28, 344, 1962.
- 5 KAWASHIRO, I., TANABE, H., ISHI, A. and KONDO, T. [Studies on the poison in Akasara shellfish.] J. food hyg. Soc. Jpn. 3, 273, 1962.
- 67 KAYABA, J. Studien über cholekinetische und choleretische Wirkungen des Korbmuschelextrakts. Tohoku J. exp. Med. 25, 258, 1935.
- 68 KELLAWAY, C.H. Mussel poisoning. Med. J. Aust. (1), 399, 1935.
- 69 KELLAWAY, C.H. The action of mussel poison on the nervous system. Aust. J. exp. Biol. med. Sci. 13, 79, 1935.
- 70 KELLAWAY, C.H. Animal poisons. Ann. Rev. Biochem. 8, 541, 1939.
- 1 KEYL, J. and WHITTAKER, V.P. Some physiological properties of urocanylcholine. Am. J. Physiol. 183, 634, 1955.
- 2 KEYL, M.J. and WHITTAKER, V.P. Some pharmacological properties of murexine (urocanoylcholine). Br. J. Pharmacol. 13, 103, 1958.
- 3 KEYL, M.J., MICHAELSON, I.A. and WHITTAKER, V.P. Physiologically active choline esters in certain gastropods and other invertebrates. J. Physiol. 139, 434, 1957.
- 4 KEYS, V.E. Management of Florida red tides regarding shellfish harvesting. In, Proceedings of the First International Conference on Toxic Dinoflagellate Blooms. LoCicero, V.R. (ed.), Mass. Sci. Tech. Found.: Wakefield, Mass., p. 483, 1975.
- 5 KINNEL, R., DUGGAN, A.J., EISNER, T. and MEINWALD, J. Panacene: an aromatic broncalene from a sea hare (*Aplysia brasili-ana*). Tetrahedron Lett. 44, 3913, 1977.
- 3276 KLAUS, G. Pharmaceuticals from the oceans. Drug Cosmetic Ind. 103, 48, 1968.
- 3277 KLINE, G.F. Notes on the stinging operation of *Conus*. Nautilus 69, 76, 1956.
- 3278 KOCH, H.J. Verlamende vergifting door mosselen. Arch. med. Soc. Hyg., Brux. 1, 796, 1938.
- 3279 KOCH, H.J. La cause de empoisonnements paralytiques provoqués par les moules. C.R. Assoc. Franc. Avanc. Sci., Liege 63, 654, 1939.
- 3280 KOFOID, C.A. Investigation of poisoning by mussels at Santa Cruz. Month. Bull. Calif. State Bd. Hlth. 13, 171, 1917.
- 3281 KÖHLER, F. Muschel- und Fischvergiftung. Fortschr. Med. 51, 291, 1933.
- 3282 KOHN, A.J. Studies on food and feeding of the cone shells, genus *Conus*. Bull. Ann. Rept. Am. Malacol. Union 22, 31, 1955.
- 3283 KOHN, A.J. Feeding in *Conus striatus* and *C. catus*. Proc. Hawaii Acad. Sci., 31st Ann. Meet., p. 13, 1956.
- 3284 KOHN, A.J. Piscivorous gastropods of the genus *Conus*. Proc. natn. Acad. Sci. 42, 16a, 1956.
- 3285 KOHN, A.J. Recent cases of human injury due to venomous marine snails of the genus *Conus*. Hawaii med. J. 17, 528, 1958.
- 3286 KOHN, A.J. The ecology of the *Conus* in Hawaii. Ecol. Monogr. 29, 47, 1959.

- 87 KOHN, A.J. The venom of the marine snail, Conus. Tenth Pac. Sci. Congr., Honolulu, p. 448, 1961.
- 88 KOHN, A.J. Venomous marine snails of the genus Conus. In, Venomous and Poisonous Animals and Noxious Plants of the Pacific Region. Keegan, H.L. and Macfarlane, W.V. (eds.), Pergamon: Oxford, p. 83, 1963.
- 89 KOHN, A.J., SAUNDERS, P.R. and WIENER, S. Preliminary studies on the venom of the marine snail Conus. Ann. N.Y. Acad. Sci. 90, 706, 1960.
- 90 KONOSU, S., INOUE, A., NOGUCHI, T. and HASHIMOTO, Y. Comparison of crab toxin with saxitoxin and tetrodotoxin. Toxicon 6, 113, 1968.
- 91 KORNALIK, F. [Animal Toxins]. State Public Health: Prague, 288p., 1967.
- 2 KOSUGE, T. [Studies on poisoning mechanisms of ivory shell—I. Isolation of bacterium producing a surugatoxin-like substance.] Nihon Suisan-Gakkai Shi 42, 1405, 1976.
- 3 KOSUGE, T., ZENDA, H., OCHIAI, et al. Isolation and structure determination of a new marine toxin, surugatoxin, from the Japanese ivory shell, Babylonia japonica. Tetrahedron Lett. 25, 2545, 1972.
- 4 KRAUSE, R. Die Tlinkit-Indianer. Jena, p. 90, 1885.
- 5 KRAUSE, R. Die Speicheldrüsen der Cephalopoden. Centrl. Physiol. Wien 9, 273, 1895.
- 96 KRAUSE, R. Über Bau und Function der hinteren Speicheldrüsen der Octopoden. Sber. Deut. Akad. Wiss. Berlin 51, 1085, 1897.
- 3297 KROGH, P. Measurements of paralytic shellfish poison. A review of biological and chemical procedures. Nord. Vet. Med. 31, 302, 1979.
- 3298 KURLAND, L.T., FARO, S.N. and SIEDLER, H. Minamata disease. The outbreak of a neurologic disorder in Minamata, Japan, and its relationship to the ingestion of seafood contaminated by mercuric compounds. World Neurol. 1, 370, 1960.
- 3299 KUROSE, T. [Pharmacological effect of mussel toxin on the stretching and contraction of muscle.] Folia Pharmacol. Jpn. 38, 441, 1943.
- 3300 KURZE, G. and REGEL, F. Giftige Seetiere in der Südsee. Mitt. Geogr. Ges. Jena 7, 120, 1889.
- 3301 LAGRAULET, J. Observations sur le métabolisme d'un poisson venenx des eaux tropicales: Ctenochaetus striatus. Helgoländer wiss. Meeresunters. 24, 327, 1973.
- 3302 LAIGRET, J. and BAGNIS, R. Traumatismes, envenimations et intoxication alimentaires causés par les animaux aquatiques. In, Encyclopédie Médicochirurgicale. Begon, C. (ed.), Éditions Techniques: Paris, vol. 2, p. 1, 1969.
- 3303 LANDE, REIMONENQ and BAUDRI-MONT. Empoisonnement par les moules. Bull. Soc. Chir. Bordeaux 178, 1872.
- 3304 LANE, C.E. Toxins of marine origin. Ann. Rev. Pharmacol. 8, 409, 1968.
- 3305 LANE, F.W. Kingdom of the Octopus. The Life History of the Cephalopoda. Sheridan House: N.Y., 300p., 1960.

- LANE, W.R. and SUTHERLAND, S. The ringed octopus bite: a unique medical emergency. Med. J. Aust. (2), 475, 1967.
- LAVOIE, M.E. How sea stars open bivalves. Biol. Bull. 111, 114, 1956.
- 8 LEBEZ, D. All Poznate Strupene zivali? Cankarjeva Založba: Ljubljana, Yugoslavia, 1961.
- 9 LE DEAUT, J.-Y., RABESANDRATANA, H., RAKOTOVAO, L.-H. et al. Preliminary studies of the Conus geographicus; venom structural properties; evaluation of the molecular weight of the toxin. Arch. Inst. Pasteur, Madagascar 46, 497, 1978.
- 0 LEDRUT, J. and UNGAR, G. Action de la sécrétine chez l'Octopus vulgaris. Arch. intern. Physiol. 44, 205, 1937.
- 1 LEE, J.S. Interaction between paralytic shellfish poison and melanin obtained from butter clam (Saxidomus giganteus) and synthetic melanin. Can. Fish. Res. Bd. J. 28, 1789, 1971.
- 2 LE MESSURIER, D.H. A survey of mussels on a portion of the Australian coast. Med. J. Aust. (1), 490, 1935.
- 3 LESCHKE, E. Clinical Toxicology. W. Wood: Baltimore, 346p., 1934.
- 4 LEVY, R. Action du venin de Lithobius fortificatus L. sur les chenilles de Galleria mellonella L. Bull. Soc. zool. Fr. 56, 454, 1931.
- 5 LEWIN, R.D. Toxin secretion and tail autonomy by irritated Oxynoe panamensis. Pac. Sci. 24, 356, 1970.
- 6 LEWINSOHN, C. [Injuries caused by marine animals.] Dapim Refuim 21, 704, 1962.
- 3317 LINAWEAVER, P.G. Toxic marine life. Milit. Med. 132, 437, 1967.
- 3318 LINDNER, G. Beitrag zur Kennzeichnung giftiger Miesmuscheln und zur Ermittlung der veranlassenden Ursachen des Muschelgiftes. Deutsch med. Wschr. 9, 585, 1888.
- 3319 LINDNER, G. Über giftige Miesmuscheln. Centralbl. Bakt. 3, 352, 1888; see also Bericht Ver- eines Naturk., Kassel 34-35, 47, 1889.
- 3320 LINSTOW, O.V. Die Giftthiere und ihre Wirkung auf den Menschen. August Hirschwald: Berlin, p. 52-78, 130, 747, 1894.
- 3321 LISON, L. Études histochimiques sur la glande à pourpre des Murex. J. Physiol. (Paris) 31, 82, 1933.
- 3322 LIVON, C. Recherches sur la structure des organes digestifs des poulpes. J. Anat. Physiol., Paris 17, 97, 1881.
- 3323 LIVON, C. and BRIOT, A. Le suc salivaire des Céphalopodes est un poison nerveux pour les crustacés. C.R. Soc. Biol. 58, 878, 1905.
- 3324 LIVON, C. and BRIOT, A. Sur le suc salivaire des Céphalopodes. J. Physiol. Path. gén. 8, 1, 1906.
- 3325 LOHMEYER, C. Diagnostische Merkmale der Giftmuscheln. Arch. Pathol. Anat. Physiol. 104, 169, 1886.
- 3326 LOHMEYER, C. Die Wilhelmshavener Giftmuschel, Mytilus edulis L. Klin. Wschr. 23, 167, 1886.
- 3327 LOPEZCAPONT, F. [Toxins in mussel and other mollusca—problems and importance for Spain.] Rev. Agro. y Tecn. de Alimentos 18, 47, 1978.

- 3328 LUSTIG, A. I. Microorganismi del Mytilus edulis. Arch. Sci. Med., Torino 12, 323, 1888; see also Arch. Ital. Biol. 10, 393, 1888.
- 3329 LÜTHY, J. Epidemic paralytic shellfish poisoning in western Europe. In, Toxic Dinoflagellate Blooms. (Proc. 2nd Intern. Conf.), Taylor, D.L. and Seliger, H.H. (eds.), Elsevier/North-Holland: N.Y., vol. 1, p. 15, 1979.
- 3330 LUTZ, R.A. and INCZE, L.S. Impact of toxic dinoflagellate blooms on the North American shellfish industry. In, Toxic Dinoflagellate Blooms. (Proc. 2nd Intern. Conf.), Taylor, D.L. and Seliger, H.H. (eds.), Elsevier/North-Holland: N.Y., vol. 1, p. 476, 1979.
- 3331 LYMAN, F. Authentic case of death by poisonous cone shell. Shell Notes, Lantana, Florida 2, 78, 1948.
- 3332 MAC GILLIVRAY, T. On a poisonous property attributed to Conus textile. Zoological notes from Aneitum, New Hebrides. Zoologist 18, 7136, 1860.
- 3333 MACHADO, O. Atividade da seção da zoologica. Biol. med. 3, 21, 1945.
- 3334 MACKIE, T.T., HUNTER, G.W. and WORTH, C.B. Medically important molluscs. In, A Manual of Tropical Medicine. 2nd edit., W.B. Saunders: Philadelphia, p. 641, 1954.
- 3335 MAC LEAN, J.L. Paralytic shellfish poison in various bivalves at Port Moresby 1973. Pac. Sci. 29, 349, 1975.
- 3336 MAC LEAN, J.L. Indo-Pacific red tides. In, Toxic Dinoflagellate Blooms. (Proc. 2nd Intern. Conf.), Taylor, D.L. and Seliger, H.H. (eds.), Elsevier/North-Holland: N.Y., vol. 1, p. 173, 1979.
- 3337 MADUGA, M. Considerações sobre a hemocianina de um molusco gastrópodo e a sua ação toxica. Boletim Vital Brazil 5, 67, 1945.
- 3338 MAGNUSSON, H.W. and CARLSON, C.J. Technological studies on the Alaska butter clam. Review of problem of occurrence of a toxin. Fish. Exp. Comm. Alaska, Fish. Prod. Lab., Ketchikan, Tech. Rept. (K-32), 10p., 1951.
- 3339 MAGNUSSON, H.W., CARLSON, C.J. and CHAMBERS, J.S. Technological studies on the Alaska butter clam, Saxidomus giganteus; II. The "mouse test." Fish. Exp. Comm. Alaska, Fish. Prod. Lab., Ketchikan, Tech. Rept. (K-37), 20p., 1951.
- 3340 MAGNUSSON, H.W., CARLSON, C.J. and CHAMBERS, J.S. Technological studies on the Alaska butter clam, Saxidomus giganteus; III. Variability of clams from a single plot. Fish. Exp. Comm. Alaska, Fish. Prod. Lab., Ketchikan, Tech. Rept. (K-38), 9p., 1951.
- 3341 MANICUS, H.T. Nogle forgiftningstilfælde. I. Muslingeforgiftning. Hospitalstidende 6, 889, 1888.
- 3342 MANN, N.M. and WINSHIP, W.S. Paralytic mussel poisoning in Natal. S. Afr. med. J. 32, 548, 1958.
- 3343 MANSON-BAHR, P.H. Animal poisons. In, Manson's Tropical Diseases. A Manual of the Diseases of Warm Climates. 13th edit., Williams & Wilkins: Baltimore, p. 342, 1950.
- 3344 MARETIĆ, Z. [Dangerous and venomous animals of the Adriatic.]

- Pomorska biblioteka 22, 157, 1969.
- 3345 MARETIĆ, Z. [Dangers from marine animals.] MORE 6, 12, 1969.
- 3346 MARETIĆ, Z. [Venomous Animals and Poisonous Animals of the Adriatic Sea.] J.A.Z.U.: Zagreb, Yugoslavia, 1975.
- 3347 MARSH, H. Preliminary studies of the venoms of some vermivorous Conidae. Toxicon 8, 271, 1970.
- 3348 MARSH, H. The caseinase activity of some vermivorous cone shell venoms. Toxicon 9, 63, 1971.
- 3349 MARTYN, G. A case of urticarial asthma, the result of mussel poisoning. Br. med. J. (1), 1265, 1895.
- 3350 MATUS, A.J. Fine structure of the posterior salivary gland of Eledone cirrosa and Octopus vulgaris. Z. Zellforsch. 122, 111, 1971.
- 3351 MC CARTHY, L.E. and BORISON, H.L. Central respiratory depression by shellfish poison (saxitoxin) in anesthetized cats. Fed. Proc. 35, 710, 1976.
- 3352 MC COLLUM, J.P., PEARSON, R.C., INGHAM, H.R., WOOD, P.C. and DEWAR, H.A. An epidemic of mussel poisoning in Northeast England. Lancet (2), 767, 1968; see also J.A.M.A. 206, 1617, 1969.
- 3353 MC DONALD, N.M. and COTTRELL, G.A. Purification and mode of action of toxin from Eledone cirrhosa. Comp. Gen. Pharmac. 3, 243, 1972; see also 2nd Intern. Symp. Animal Toxins, Tel Aviv, p. 63, 1970 (Abst.).
- 3354 MC FARREN, E.F. Report on shellfish poison. J. Assoc. Off. agric. Chem. p. 272, 1958.
- 3355 MC FARREN, E.F. Report on collaborative studies of the bioassay for paralytic shellfish poison. J. Assoc. Off. agric. Chem. 42, 263, 1959.
- 3356 MC FARREN, E.F. Collaborative study of the chemical assay for paralytic shellfish poison. J. Assoc. Off. agric. Chem. 43, 544, 1960.
- 3357 MC FARREN, E.F. Differentiation of the poison of fish, shellfish and plankton. In, Animal Toxins. Russell, F.E. and Saunders, P.R. (eds.), Pergamon: Oxford, p. 85, 1967; see also Toxicon 8, 294, 1967.
- 3358 MC FARREN, E.F. and BARTSCH, A.F. Application of the paralytic shellfish poison assay to poisonous fishes. J. Assoc. Off. agric. Chem. 43, 548, 1960.
- 3359 MC FARREN, E.F., CAMPBELL, J.E. and ENGLE, J.B. The occurrence of copper and zinc in shellfish. Proc. Shellfish Sanit. Workshop, U.S.P.H.S., November 1961.
- 3360 MC FARREN, E.F., SCHANTZ, E.J., CAMPBELL, J.E. and LEWIS, K.H. Chemical determination of paralytic shellfish poison in clams. J. Assoc. Off. agric. Chem. 41, 168, 1958.
- 3361 MC FARREN, E.F., SCHANTZ, E.J., CAMPBELL, J.E. and LEWIS, K.H. A modified Jaffe test for determination of paralytic shellfish poison. J. Assoc. Off. agric. Chem. 42, 399, 1959.
- 3362 MC FARREN, E.F., SCHAFER, M.L., CAMPBELL, J.E. et al. Public health significance of paralytic shellfish poison. A review of literature and unpublished research. Proc. natn. Shellfish. Assoc. 47, 114, 1956.

- 3363 MC FARREN, E.F., SCHAFER, M.L., CAMPBELL, J.E. et al. Public health significance of paralytic shellfish poison. Adv. food Res. 10, 135, 1960.
- 3364 MC FARREN, E.F., TANABE, H., SILVA, F.J. et al. The occurrence of a ciguatera-like poison in oysters, clams, and Gymnodinium breve cultures. Toxicon 3, III, 1965.
- 3365 MC MICHAEL, D.F. Poisonous bites by octopus. Proc. Roy. zool. Soc. N.S.W. p. 10, 1957.
- 3366 MC MICHAEL, D.F. Another poisonous octopus bite. J. malacol. Soc. Aust. 5, 58, 1961.
- 3367 MC MICHAEL, D.F. Dangerous marine molluscs. Proc. First Intern. Convention Life Saving Techniques, Part III, Sci. Sect., Bull. Post Grad. Comm. Med., Univ. Sydney, Australia, p. 74, 1963.
- 3368 MC MICHAEL, D.F. Slides on dangerous molluscs. Proc. First Intern. Convention Life Saving Techniques, Part III, Sci. Sect., Bull. Post Grad. Comm. Med., Univ. Sydney, Australia, p. 86, 1963.
- 3369 MC MICHAEL, D.F. The identity of the venomous octopus responsible for a fatal bite at Darwin, Northern Territory. J. malacol. Soc. Aust. 8, 23, 1964.
- 3370 MC MICHAEL, D.F. Mollusks—classification, distribution, venom apparatus and venom, symptomology of stings. In, Venomous Animals and Their Venoms. Bucher, W. and Buckley, E.E. (eds.), Academic: N.Y., p. 373, 1971.
- 3371 MC WEENEY, E.J. Preliminary note on the bacteria of poisonous mussels. Br. med. J. (2), 628, 1890.
- 3372 MEBS, D., SIMON, B., GEMMER, H. and STILLE, W. The occurrence of shellfish poisoning in the Frankfurt area (West Germany). Period. Biol. 80, 151, 1978; see also Toxicon 16, 423, 1978 (Abst.).
- 3373 MEBS, D., SIMON, B., GEMMER, H. and STILLE, W. Occurrence of shellfish poisoning in the Frankfurt area. Toxicon 16, 98, 1978.
- 3374 MEDCOF, J.C. Shellfish poisoning—another North American ghost. Can. med. Assoc. J. 82, 87, 1960.
- 3375 MEDCOF, J.C. and GIBBONS, R.J. Paralytic shellfish poisoning in Nova Scotia and New Brunswick. Fish. Res. Bd. Can., Prog. Rept. Atlantic Coast Sta. (376), 34p., 1948.
- 3376 MEDCOF, J.C., LEIM, A.H., NEEDLER, A.B. et al. Paralytic shellfish poisoning on the Canadian Atlantic coast. Bull. Fish. Res. Bd. Can. 75, 1, 1947.
- 3377 MEEK, W.J. The gentle art of poisoning. J.A.M.A. 158, 335, 1955.
- 3378 MELLAN, I. and MELLAN, E. Dictionary of Poisons. Philosophical Lib.: N.Y., 150p., 1956.
- 3379 MEYER, K.F. Mussel poisoning in California. Calif. Fish Game 14, 201, 1928; see also Ueber Muschelvergiftungen in Kalifornien. Zschr. Fleisch Milchhyg. 39, 210, 1929.
- 3380 MEYER, K.F. New knowledge on botulism and mussel poisoning. Am. J. pub. Hlth. 21, 762, 1931.
- 3381 MEYER, K.F. Medical progress: food poisoning. New Engl. med. J. 249, 765, 804, 843, 1953.

- 3382 MEYER, K.F., SOMMER, H. and SCHOENHOLZ, P. Mussel poisoning. J. prev. Med. 2, 365, 1928.
- 3383 MEYERS, H.F. and HILLIARD, D.K. Shellfish poisoning episode in False Pass, Alaska. Pub. Hlth. Rept. 70, 419, 1955.
- 3384 MIDDLEBROOK, R.E., WITTLE, L.W., SCURA, E.D. and LANE, C.E. Isolation and purification of a toxin from *Millepora dichotoma*. Toxicon 9, 333, 1971.
- 3385 MIGITA, M. and KANNA, K. On the source of shellfish poison at the Lake Hamana. I. Attempts at experimentally rendering shellfish toxic. Bull. Jpn. Soc. scient. Fish. 23, 215, 1957.
- 3386 MIGITA, M. and KANNA, K. Deterioration of the shellfish poison "venerupin" by inorganic salts. Bull. Jpn. Soc. scient. Fish. 24, 363, 1958.
- 3387 MIGITA, M., KANNA, K. and ISINO, A. Action of benzoic acid and quinine in "neuerupin," a shellfish poison. Bull. Jpn. Soc. scient. Fish. 22, 424, 1956.
- 3388 MINTON, S.A. Spines and stings and sea snakes. Consultant 17, 45, 1977.
- 3389 MIYAJIMA, M. La question de "l'eau rouge," un péril pour les huîtres perlières. Bull. Soc. Cent. Aquic. Pêche 41, 97, 1934.
- 3390 MOLD, J.D. The isolation and identification of the toxic principle of the sea mussel, *Mytilus californianus*, Conrad. Thesis, Northwestern Univ., Evanston, Illinois, 71, 1, 1947.
- 3391 MOLD, J.D., BOWDEN, J.P., STANGER, D. et al. Paralytic shellfish poison. VII. Evidence for the purity of the poison isolated from toxic clams and mussels. J. Am. chem. Soc. 79, 5235, 1957.
- 3392 MONNIER, R.P. Versuche zur Isolierung eines in *Mytilus californianus* enthaltenen Giftes. Thesis, Eidg. Techn. Hochschule, Zurich, 43p., 1938.
- 3393 MONTGOMERY, D.H. Responses of two halotid gastropods (*Mollusca*), *Haliotis assimilis* and *Haliotis rufescens* to the forcipulate asteroids (*Echinodermata*), *Pycnopodia helianthoides* and *Pisaster ochraceus*. Velliger 9, 359, 1967.
- 3394 MONTROUZIER, R.P. [Regarding the toxicity of *Conus marmoreus* and *C. textile*.] J. Conchy. 25, 99, 1877.
- 3395 MORI, Y., ANRAKU, M., YAGI, K. et al. [On the venomous Crustacea and fish from Amami-Oshima and Okinawa Islands—I.] Med. J. Kagoshima Univ. 19, 729, 1968.
- 3396 MORSE, E.V. Paralytic shellfish poisoning: a review. J. Am. vet. med. Assoc. 171, 1178, 1977.
- 3397 MUIĆ, V., ZEKIĆ, R., MARETIĆ, Z. and BUJAN, M. Infection and contamination of some edible animals in the polluted sea area of Pula. Toxicon 16, 424, 1978 (Abst.).
- 3398 MULBERRY, G. Paralytic shellfish poison—serological assay by passive hae.magglutination and bentonite flocculations. Nature 211, 747, 1966.
- 3399 MÜLLER, H. Mussels and clams: a seasonal quarantine—bicarbonate of soda as a factor in the prevention of mussel poisoning. Calif. west. Med. 37, 327, 1932.

- 3400 MÜLLER, H. Chemistry and toxicity of mussel poison. J. Pharmacol. exp. Ther. 53, 67, 1935.
- 3401 MURANO, M. [Paralytic shellfish poisoning in Ofunato Bay and a suspected species of plankton.] Info. Bull. Plankt. Jpn. 22, 33, 1975.
- 3402 MURPHY, A.L. Mussel poisoning in Nova Scotia. Can. med. Assoc. J. 35, 418, 1936.
- 3403 MURTHA, E.F. Pharmacological study of poisons from shellfish and puffer fish. Ann. N.Y. Acad. Sci. 90, 820, 1960.
- 3404 NAKANISHI, K. and YOKOTE, Z. Muschelvergiftung in der Provinz Fukushima. Zschr. Med. Ges. Tokyo 12, 279, 1897.
- 3405 NAKANO, W. and IIOKA, K. [Poisoning from ingestion of the shellfish, *Chlamys nipponensis akazara*.] J. food hyg. Soc. Jpn. 6, 298, 1963.
- 3406 NAKAZIMA, M. [Studies on the toxicity of littleneck clam and oyster.] Bull. biogeogr. Soc. Jpn. 16-19, 84, 1955.
- 3407 NAKAZIMA, M. Studies on the source of shellfish poison in Lake Hamana. II. Shellfish toxicity during the "red tide." Bull. Jpn. Soc. scient. Fish. 31, 204, 1965.
- 3408 NAKAZIMA, M. Studies on the source of shellfish poison in Lake Hamana. III. Poisonous effects of shellfish feeding on *Prorocentrum* sp. Bull. Jpn. Soc. scient. Fish. 31, 281, 1965.
- 3409 NAKAZIMA, M. Studies on the source of shellfish poison in Lake Hamana. IV. Identification and collection of the noxious dinoflagellate. Bull. Jpn. Soc. scient. Fish. 34, 130, 1968.
- 3410 NEEDLER, A.B. Paralytic shellfish poisoning and *Gonyaulax tamarensis*. J. Can. Fish. Res. Bd. 7, 490, 1949.
- 3411 NEL, E.A. Red water and mussel poisoning at Elands Bay, December 1966. Fish. Bull. S. Afr. 6, 36, 1970.
- 3412 NETTER, A. and RIBADEAU-DUMAS, L. Accidents toxiques à forme paralytiques à consecutifs à l'ingestion de moules. Examens bacteriologique et inoculations. C.R. Soc. Biol. 63, 81, 195, 1907.
- 3413 NIELLY, M. Animaux et vegetaux nuisibles. In, Elements de Pathologie Exotique. Delahaye & Lecrosnier: Paris, p. 712, 1881.
- 3414 NIGHTINGALE, H.W. Red Water Organisms: Their Occurrence and Influence Upon Marine Aquatic Animals, with Special Reference to Shellfish in Waters of the Pacific Coast. Argus Press: Seattle, Washington, 24p., 1936.
- 3415 NIGRELLI, R. The effects of holothurin on fish and mice with sarcoma 180. Zoologica 37, 89, 1952.
- 3416 NIGRELLI, R.F., STEMPIEN, M.F., JR., RUGGIERI, G.D., LIGUORI, V.R. and CECIL, J.T. Substances of potential importance from marine organisms. Fed. Proc. 26, 1197, 1967.
- 3417 NISHIMURA, S. Droplets from the plankton net. XX. Sea stings caused by *Creseis acicula* rang mollusca-pteropoda in Japan. Publ. Seto mar. Biol. Lab. 13, 287, 1965.
- 3418 OKAICHI, T. and IMATOMI, Y. Toxicity of *Prorocentrum minimum* var. *mariae-lebouriae* assumed to be a causative agent of short-necked clam poisoning. In, Toxic Dinoflagellate Blooms. (Proc. 2nd Intern. Conf.), Taylor, D.L.

- and Seliger, H.H. (eds.), Elsevier/North-Holland N.Y., vol. 1, p. 385, 1979.
- 3419 OKAICHI, T. and NISHIO, S. Paralytic shellfish poisoning in eastern Seto inland sea. Bull. Jpn. Soc. scient. Fish. 43, 1251, 1977.
- 3420 OSHIMA, Y., BUCKLEY, L.J., ALAM, M. and SHIMIZU, Y. Heterogeneity of paralytic shellfish poison. Three new toxins from cultured Gonyaulax tamar-ensis cells, Mya arenaria and Saxidomus giganteus. Comp. Biochem. Physiol. 57, 31, 1977.
- 3421 OSHIMA, Y., SHIMIZU, Y., NISHIO, S. and OKAICHI, T. Identification of paralytic shellfish toxins in shellfish from the inland sea. Bull. Jpn. Soc. scient. Fish. 44, 395, 1978.
- 3422 OSHIMA, Y., FALLON, W.E., SHIMIZU, Y., NOGUCHI, T. and HASHIMOTO, Y. Toxins of the Gonyaulax sp. and infested bivalves in Owase Bay. Bull. Jpn. Soc. scient. Fish. 42, 851, 1976.
- 3423 OZENNE, C.M. Essai sur les mollusques considérés comme aliments médicaments et poisons. Thesis, Fac. Med., Paris, No. 403, 80p., 1858.
- 3424 PASINI, C., VERCELLONE, A. and ERSPAMER, V. Synthesis of murexins (β -[imidazolyl-4(5)]acrylcholine). Justus Liebigs Ann. Chem. 578, 6, 1952.
- 3425 PASINI, C., VERCELLONE, A. and ERSPAMER, V. Murexino-simili-Preparazione e proprietà di una serie di esteri colinici di acidi acrilici e propionici B-sostituiti con nuclei eterociclici diversi. Gazz. Chim. Ital. 86, 266, 1956.
- 3426 PATERSON, T. Case of mussel poisoning. Lancet (1), 323, 1873.
- 3427 PAWLOWSKY, E.N. Gifftiere und Ihre Giftigkeit. Gustav Fischer: Jena, p. 349, 381, 473, 1927.
- 3428 PAWLOWSKY, E.N. Medical Geography of the U.S.S.R. Joint Publ. Res. Serv. No. 15,633. U.S. Dept. Commerce, Off. Tech. Serv.: Washington, 312p., 1962.
- 3429 PEARSON, R.C.M., INGHAM, H.R., WOOD, P.C. and DEWAR, H.A. An epidemic of mussel poisoning in north-east England. Lancet (2), 676, 1968.
- 3430 PEILE, A.J. Some radula problems. J. Conchy. 20, 292, 1937.
- 3431 PEILE, A.J. Radula notes VIII, Conus. Proc. malacol. Soc. London 23, 348, 1939.
- 3432 PELSENEER, P. The Gastropoda. A Treatise on Zoology, Part V, Mollusca. Lankester, E.F. (ed.), Adam & Charles Black: London, p. 66, 1906.
- 3433 PENCAR, S., FERLAN, I., COTIC, L. and SCHARA, M. (1975). An EPR study of the hemolytic action of equinatoxin. Period. Biol. 77, 149, 1975.
- 3434 PEPLER, W.J. and LOUBSER, E. Histochemical demonstration of the mode of action of the alkaloid in mussel poisoning. Nature 188, 800, 1960.
- 3435 PEPPER, S.J. Toxic fish and mollusks. Info. Bull., Air Train. Command, Environ. Info., U.S. Dept. Def., 1975.
- 3436 PEQUEGNAT, L.H. The facts about mussel poisoning. Pac. Discovery 17, 20, 1964.

- 3437 PÉQUIGNAT, E. and TIFFON, Y. Mise en évidence d'une activité amylasique cutanée chez les édinides. C.R. Soc. Biol. 264, 3014, 1967.
- 3438 PERMEWAN, W. A fatal case of poisoning by mussels, with remarks on the action of the poison. Lancet (2), 568, 1838.
- 3439 PETRAUSKAS, L.E. A case of cone shell poisoning by "bite" in Manus Island. Papua New Guinea med. J. 1, 67, 1955.
- 3440 PFEFFER, G. Die Cephalopoden der Planktonexpedition, zugleich eine Monographische Übersicht der oegopsiden Cephalopoden. Vol. 21, Ergebn. Planktonexpedition der Humboldt-Stiftung, 815p., 1912.
- 3441 PHILLIPS, C. and BRADY, W.H. Sea Pests: Poisonous or Harmful Sea Life of Florida and the West Indies. Univ. Miami Press: Miami, 78p., 1953.
- 3442 PHISALIX, C. Venins et animaux venimeux dans la série animale. Rev. scient., Paris 4.s.8:97, 195, 329, 1897.
- 3443 PHISALIX, M. Animaux Venimeux et Venins. 2 vols., Masson & Cie: Paris, vol. 1, p. 465, 1922.
- 3444 PIÉRON, H. La question du poison curarisant de la salive de l'octopus et de son mécanisme d'action sur le muscle-loquet des lamelli-branches. Acta physiol. pharmac. Néerl. 6, 608, 1957.
- 3445 PILSON, M.E.Q. and TAYLOR, P.B. Hole drilling by octopus. Science 134, 1366, 1961.
- 3446 PISANO, J.J. Vasoactive peptides in venoms. Fed. Proc. 27, 58, 1968.
- 3447 PLUMERT, A. Über giftige Seetiere im Allgemeinen und einen Fall von Massenvergiftung durch Seemuscheln im Besonderen. Arch. Schiffs-u. Tropenhyg. 6, 15, 1902.
- 3448 POPE, E.C. Some sea animals that sting and bite. Aust. Mus. Mag. 9, 164, 1947.
- 3449 POPE, E.C. Venomous ringed octopus. Aust. nat. Hist. 16, 16, 1968.
- 3450 POPKISS, M.E.E., HORSTMAN, D.A. and HARPUR, D. Paralytic shellfish poisoning: a report of 17 cases in Cape Town. S. Afr. med. J. 55, 1017, 1979.
- 3451 POTTIEZ, C. Notice sur l'ingestion des moules et des divers cas d'empoisonnements observés. J. Pharm., Antwerp 53, 47, 90, 136, 178, 1879.
- 3452 PRAKASH, A. Status of paralytic shellfish poisoning research in Canada. Proc. Shellfish. Sanit. Workshop; Appendix. Washington, 1961.
- 3453 PRAKASH, A. Source of paralytic shellfish toxin in the Bay of Fundy. J. Can. Fish. Res. Bd. 20, 983, 1963.
- 3454 PRAKASH, A. Physiological ecology of the causative organisms including mechanisms of toxin accumulation in shellfish. In, Proceedings of the Joint Sanitation Seminar on North Pacific Clams. Felsing, W.A., Jr. (ed.), Govt. Print. Off.: Washington, p. 8, 1965.
- 3455 PRAKASH, A. and MEDCOF, J.C. Hydrographic and meteorological factors affecting shellfish toxicity at Head Harbour, New Brunswick. J. Can. Fish. Res. Bd. 19, 101, 1962.

- 3456 PRAKASH, A. and STEIDINGER, K. Development of a rapid international communication network. In, Proceedings of the Second International Conference on Toxic Dinoflagellate Blooms. Taylor, D.L. and Seliger, H.H. (eds.), Elsevier/North-Holland: N.Y., vol. 1, p. 474, 1979.
- 3457 PRAKASH, A. and TAYLOR, F. A "red bloom" of Gonyaulax catenella in the Strait of Georgia and its relation to paralytic shellfish toxicity. J. Can. Fish. Res. Bd. 23, 1265, 1966.
- 3458 PRAKASH, A., MEDCOF, J.C. and TENNANT, A.D. Paralytic shellfish poisoning in eastern Canada. Bull. Fish. Res. Bd. Can. (177), 1971.
- 3459 PRICE, M.J. Paralytic shellfish poisoning in Papua, New Guinea, 1972. Pac. Sci. 29, 1, 1975.
- 3460 PRINGLE, B.H. Analytical procedures for paralytic shellfish poison. In, Proceedings of the Joint Sanitation Seminar on North Pacific Clams. Felsing, W.A., Jr. (ed.), Govt. Print. Off.: Washington, p. 16, 1965.
- 3461 PRINGLE, B.H. Pharmacology of paralytic shellfish poison. In, Proceedings of the Joint Sanitation Seminar on North Pacific Clams. Felsing, W.A., Jr. (ed.), Govt. Print. Off.: Washington, p. 22, 1965.
- 3462 PRINZMETAL, M., SOMMER, H. and LEAKE, C.D. The pharmacological action of "mussel poison." J. Pharmacol. exp. Therap. 46, 63, 1932.
- 3463 PROCTOR, N.H., CHAN, S.L. and TAYLOR, A.J. Production of saxitoxin by cultures of Gonyaulax catenella. Toxicon 13, 1, 1975.
- 3464 PROVASOLI, L. Recent progress, an overview. In, Toxic Dinoflagellate Blooms. (Proc. 2nd Intern. Conf.), Taylor, D.L. and Seliger, H.H. (eds.), Elsevier/North-Holland: N.Y., p. 1, 1979.
- 3465 PRYOR, J.C. Marine animal life dangerous to man. In, Naval Hygiene. Blakiston & Son: Philadelphia, p. 309, 1918.
- 3466 PUGSLEY, L.I. The possible occurrence of a toxic material in clams and mussels. Fish. Res. Bd. Can., Prog. Rept. Pac. Coast Sta. (40), 1939.
- 3467 QUAYLE, D. Fisheries Research Board of Canada, Nanaimo, British Columbia. In, Proceedings of the Joint Sanitation Seminar on North Pacific Clams. Felsing, W.A., Jr. (ed.), Govt. Print. Off.: Washington, p. 7, 1965.
- 3468 QUAYLE, D. Animal detoxification. In, Proceedings of the Joint Sanitation Seminar on North Pacific Clams. Felsing, W.A., Jr. (ed.), Govt. Print. Off.: Washington, p. 11, 1965.
- 3469 QUILLIAM, J.P. The mechanism of action of murexine on neuromuscular transmission in the frog. Br. J. Pharmacol. 12, 388, 1957.
- 3470 RABESANDRATANA, H. Contribution to the study of the poisonous cones of Madagascar, Malagasy-Republic. Tethys 5, 317, 1973.
- 3471 RAVINA, A. Les mollusques venimeux. Presse méd. 43, 2126, 1935.
- 3472 RAWITZ, B. Ueber den feineren Bau der hinteren Speicheldrüsen der Cephalopoden. Arch. mikrosk. Anat. 39, 596, 1892.
- 3473 RAY, R. and CATTERALL, W.A. Receptor sites for scorpion toxin, saxitoxin and batrachotoxin

- associated with sodium channels in synaptosomes. Fed. Proc. 37, 1826, 1978.
- 3474 RAY, S.A. Paralytic shellfish poisoning: a status report. Curr. Topics comp. Path. 1, 171, 1971.
- 3475 RAY, S.M. The public health significance of Gymnodinium breve. U.S. Fish Wildl. Serv., Spec. Sci. Rept., Fish. (521), 1965.
- 3476 RAY, S.M. and ALDRICH, D.V. Gymnodinium breve: induction of shellfish poisoning in chicks. Science 148, 1748, 1965.
- 3477 RAY, S.M. and ALDRICH, D.V. Ecological interactions of toxic dinoflagellates and molluscs in the Gulf of Mexico. In, Animal Toxins. Russell, F.E. and Saunders, F.R. (eds.), Pergamon: Oxford, p. 75, 1967; see also Toxicon 4, 298, 1967 (Abst.).
- 3478 READ, B.E. Chinese materia medica: turtle and shellfish drugs. Peking Nat. Hist. Bull., 95p., 1937.
- 3479 REYES-VASQUEZ, G., FERRAZ-REYES, E. and VASQUEZ, E. Toxic dinoflagellate blooms in northeastern Venezuela during 1977. In, Toxic Dinoflagellate Blooms. (Proc. 2nd Intern. Conf.), Taylor, D.L. and Seliger, H.H. (eds.), Elsevier/North-Holland: N.Y., vol. 1, p. 191, 1979.
- 3480 RICE, R.D. and HALSTEAD, B.W. Report of fatal cone shell sting by Conus geographus Linnaeus. Toxicon 5, 223, 1968.
- 3481 RICHAUD, J., RABESANDRATANA, H. and BRYGOD, E.R. Enzymes of venom glands in several mollusca of genus Conus. Arch. Inst. Pasteur, Madagascar 41, 135, 1972.
- 3482 RIEGEL, B., STANGER, D.W., WIKHOLM, D.M., MOLD, J.D. and SOMMER, H. Paralytic shellfish poisoning. IV. Bases accompanying the poison. J. biol. Chem. 177, 1, 1949.
- 3483 RIEGEL, B., STANGER, D.W., WIKHOLM, D.M., MOLD, J.D. and SOMMER, H. Paralytic shellfish poisoning. V. The primary source of the poison, the marine plankton organism, Gonyaulax catenella. J. biol. Chem. 177, 7, 1949.
- 3484 RITCHIE, J.M. Tetrodotoxin and saxitoxin, and the sodium channels of excitable tissue. Trends Pharmacol. Sci., p. 275, June 1980.
- 3485 ROAF, H.E. The situation in the mantle of Purpura lapillus of the cells which yield a pressor substance. Q. J. exp. Physiol. 4, 89, 1911.
- 3486 ROAF, H.E. and NIERENSTEIN, M. The physiological action of extract of the hypobranchial gland of Purpura lapillus. J. Physiol. 36, 5, 1907.
- 3487 ROAF, H.E. and NIERENSTEIN, M. Adrenaline et purpurine (reply to Mr. Dubois). C.R. Soc. Biol. 63, 773, 1907.
- 3488 ROBERTS, B.S., HENDERSON, G.E. and MEDLYN, R.A. The effects of Gymnodinium breve toxin(s) on selected mollusks and crustaceans. In, Toxic Dinoflagellate Blooms. (Proc. 2nd Intern. Conf.), Taylor, D.L. and Seliger, H.H. (eds.), Elsevier/North-Holland: N.Y., vol. 1, p. 419, 1979.
- 3489 ROGERS, J.E. The Shell Book. Charles T. Branford Co.: Boston, 463p., 1910.

- 3490 ROLFE, R. Two cases of poisoning by mussels—one fatal. Lancet (2), 593, 1904.
- 3491 ROMANINI, M.G. Osservazioni sulla ialuronidasi delle ghiandole salivari anteriori e posteriori degli octopodi. Pubbl. Staz. zool. Napoli 23, 251, 1952.
- 3492 ROMANO, S. Animali velenosi della fauna italiana. Natura (Milano) 31, 137, 1940.
- 3493 ROMIJN, C. Der Verdauungsenzyme bei einigen Cephalopoden. Arch. neerl. Zool. 1, 373, 1935.
- 3494 ROSEGHINI, M. Occurrence of dehydromurexine (imidazolepropionyl choline) in the hypobranchial gland of *Thais haemastoma*. Experientia 27, 1008, 1971.
- 3495 ROSENBERG, P. Effects of venoms on the squid giant axon. Toxicon 3, 125, 1965.
- 3496 ROULE, L. Les venins des murènes. In, Les Poissons et le Monde Vivant des Eaux. Librairie Delagrave: Paris, vol. 2, p. 168, 1927.
- 3497 ROWLEY, M.P. and ROWLEY, D. A mouse toxic hemagglutinating factor in keyhole limpet hemolymph. Experientia 24, 1056, 1968.
- 3498 ROY, R.N. Red tide and outbreak of paralytic shellfish poisoning in Sabah. Med. J. Malaysia 31, 247, 1977.
- 3499 RUGGIERI, G.D. Drugs from the sea. Marine organisms with novel chemical constituents are excellent sources of new drugs. Science 194, 491, 1976.
- 3500 RUSSELL, F.E. Marine toxins and venomous and poisonous marine animals. In, Advances in Marine Biology. Russell, F.S. (ed.), Academic: London, vol. 3, p. 255, 1965.
- 3501 RUSSELL, F.E. Venomous and poisonous marine animals and their toxins. First Inter-American Naval Res. Conf., San Juan, Puerto Rico, 37p., 1965.
- 3502 RUSSELL, F.E. Toxic marine animals. Naval Res. Rev. 19, 20, 1966.
- 3503 RUSSELL, F.E. Injuries by venomous animals. Am. J. Nursing 66, 1322, 1966.
- 3504 RUSSELL, F.E. Injuries by venomous animals. Natn. Clearinghouse Poison Control Centers, U.S. Dept. Hlth., Ed., Wlfr., P.H.S., January-February, 1967.
- 3505 RUSSELL, F.E. Comparative pharmacology of some animal toxins. Fed. Proc. 26, 1206, 1967.
- 3506 RUSSELL, F.E. Pharmacology of toxins of marine origin. In, International Encyclopedia of Pharmacology and Therapeutics. Raskova, H. (ed.), Pergamon: Oxford, Sect. 71, vol. 2, p. 3, 1971.
- 3507 RUSSELL, F.E. Poisonous Marine Animals. T.F.H. Publ.: Neptune City, N.J., 176p., 1971.
- 3508 RUSSELL, F.E. Venomous animal injuries. In, Current Problems in Pediatrics. Gluck, L. (ed.), Year Book Medical Publ.: Chicago, vol. III, (9), p. 1, 1973.
- 3509 RUSSELL, F.E. Poisonous and venomous marine animals and their toxins. Ann. N.Y. Acad. Sci. 245, 57, 1975.

- 3510 RUSSELL, F.E. Animal venoms. In, Practice of Medicine. Wolber, P.G.H. (ed.), Harper & Row: Hagerstown, Md., vol. IX, chap. 30, p. 1, 1975.
- 3511 RUSSELL, F.E. Venomous bites and stings. In, The Merck Manual. 13th edit., Berkow, R. (ed.), Merck, Sharp & Dohme Res. Lab.: Rahway, N.J., 1977.
- 3512 RUSSELL, F.E. Venom poisoning: snakes, arthropods and marine animals. Emergency Medicine Symposium III, Univ. Calif., San Diego, 1978-.
- 3513 RUSSELL, F.E. and BRODIE, A.F. Venoms. In, Encyclopedia of Chemistry. Hampel, C.A. and Hawley, G.G. (eds.), VanNostrand Reinhold: N.Y., p. 1139, 1973.
- 3514 RUSSELL, F.E. and CARLSON, R.W. Marine organisms. In, Biology Data Book. Altman, P.L. and Dittmer, D.S. (eds.), F.A.S.E.B.: Washington, p. 726, 1973.
- 3515 SAITO, I. [Anatomy of Octopus fangsiao (d'Orbigny).] Zool. Mag. Tokyo 46, 6, 53, 1934.
- 3516 SAITO, M., OSONO, T., WATANABE, J. et al. Studies on Minamata disease. I. Establishment of the criterion for etiological research in mice. Jpn. J. exp. Med. 31, 277, 1961.
- 3517 SAKSHAUG, E. and JENSEN, A. Gonyaulax tamaraensis and paralytic mussel toxicity in Trondheimsfjorden, 1963-1969. K. norske Vidensk. Selsk. Skr. 15, T, 1971.
- 3518 SALKOWSKI, E. Zur Kenntniss des Giftes der Miesmuschel (Mytilus edulis). Virchows Arch. 102, 578, 1885.
- 3519 SAMS, W.M. Seabather's eruption. Arch. Derm. Syph. 60, 227, 1949.
- 3520 SANDRIN, E. and BOISSONNAS, R.A. Synthesis of eledoisin. Experientia 18, 59, 1962.
- 3521 SANTOS-PINTOS, J., DOS and DE SOUSA E SILVA, E. The toxicity of Cardium edule L. and its possible relation to the dinoflagellate Prorocentrum micans Ehr. Notas estud. Inst. Biol. Maritima, Lisbon 12, 1, 1956.
- 3522 SAPEIKA, N. Mussel poisoning. S. Afr. med. J. 22, 337, 1948.
- 3523 SAPEIKA, N. Actions of mussel poison. Arch. intern. Pharmacodyn. 93, 135, 1953.
- 3524 SAPEIKA, N. Mussel poisoning: a recent outbreak. S. Afr. med. J. 32, 527, 1958.
- 3525 SARRAMEGNA, R. Poisonous gastropods of the Conida family found in New Caledonia and the Indo-Pacific. S. Pac. Comm., Noumea, Tech. Pap. (144), 1965.
- 3526 SASAGAWA, S. and INOUE, K. The paralytic poisonous component in cultivated oyster at Miyazu Bay, Kyoto Prefecture. Jpn. J. Hyg. 23, 213, 1968.
- 3527 SASNER, J.J., JR. Purification of two Gonyaulax tamarensis toxins from clams (Mya arenaria) and the identification of saxitoxin. In, Proceedings of the First International Conference on Toxic Dinoflagellate Blooms. LoCicero, V.R. (ed.), Mass. Sci. Tech. Found.: Wakefield, Mass., p. 423, 1975.
- 3528 SAUNDERS, P.R. and WOLFSON, F. Food and feeding behavior in Conus californicus Hinds, 1844. Veliger 3, 73, 1961.

- 3529 SAVAGE, I.V.E. and HOWDEN, M.E.H. Hapalotoxin, a second lethal toxin from the octopus Hapalochlaena maculosa. Toxicology 15, 463, 1977.
- 3530 SCHANTZ, E.J. Biochemical studies on paralytic shellfish poisons. Ann. N.Y. Acad. Sci. 90, 843, 1960.
- 3531 SCHANTZ, E.J. Studies on the paralytic poisons found in mussels and clams along the North American Pacific coast. Tenth Pac. Sci. Congr., Honolulu, p. 450, 1961.
- 3532 SCHANTZ, E.J. Symposium on the chemistry of toxic substances. II. Some chemical and physical properties of paralytic shellfish poisons related to toxicity. J. med. Pharm. Chem. 4, 459, 1961.
- 3533 SCHANTZ, E.J. Studies on the paralytic poisons found in mussels and clams along the North American Pacific Coast. In, Venomous and Poisonous Animals and Noxious Plants of the Pacific Region. Keegan, H.L. and MacFarlane, M.V. (eds.), Pergamon: Oxford, p. 75, 1963.
- 3534 SCHANTZ, E.J. Chemical studies on shellfish poisons. In, Proceedings of the Joint Sanitation Seminar on North Pacific Clams. Felsing, W.A., Jr. (ed.), Govt. Print. Off.: Washington, p. 18, 1965.
- 3535 SCHANTZ, E.J. Biochemical studies on certain algal toxins. In, Biochemistry of Some Foodborne Microbial Toxins. Mateles, R.I. and Wogan, G.N. (eds.), M.I.T. Press: Boston, p. 51, 1967.
- 3536 SCHANTZ, E.J. The dinoflagellate poisons. In, Microbial Toxins, Vol. III, Algal and Fungal Toxins. Kadis, S., Ciegler, A. and Ajl, S. (eds.), Academic: N.Y., p. 3, 1971.
- 3537 SCHANTZ, E.J. Seafood toxicants. In, Toxicants Occurring Naturally in Foods. Nat. Acad. Sci.: Washington, p. 424, 1973.
- 3538 SCHANTZ, E.J. and LAUFFER, M.A. Diffusion measurements in agar gel. Biochemistry 1, 658, 1962.
- 3539 SCHANTZ, E.J. and MAGNUSSON, H.W. Observations on the origin of the paralytic poison in Alaska butterclam. J. Protozool. 11, 239, 1964.
- 3540 SCHANTZ, E.J., MC FARREN, E.F., SCHAFER, M.L. and LEWIS, K.H. Purified shellfish poison for bioassay standardization. J. Assoc. Off. agric. Chem. 41, 160, 1958.
- 3541 SCHANTZ, E.J., GHAZAROSSIAN, V.E., SCHNOES, H.K. et al. The structure of saxitoxin. J. Am. chem. Soc. 97, 1238, 1975.
- 3542 SCHANTZ, E.J., GHAZAROSSIAN, V.E., SCHNOES, H.K. et al. Paralytic poisons from marine dinoflagellates. In, Proceedings of the First International Conference on Toxic Dinoflagellate Blooms. LoCicero, V.R. (ed.), Mass. Sci. Tech. Found.: Wakefield, Mass., p. 267, 1975.
- 3543 SCHANTZ, E.J., MOLD, J.D., HOWARD, W.L. et al. Paralytic shellfish poison. VIII. Some chemical and physical properties of purified clam and mussel poisons. Can. J. Chem. 39, 2117, 1961.
- 3544 SCHANTZ, E.J., MOLD, J.D., STANGER, D.W. et al. Paralytic shellfish poison. VI. A procedure for the isolation and purification of the poison from toxic clam and mussel tissues. J. Am. chem. Soc. 79, 5230, 1957.

- 3545 SCHEUER, P.J. The chemistry of toxins isolated from some marine organisms. Fortschr. Chem. org. Naturst. 22, 263, 1964.
- 3546 SCHEUER, P.J. Toxins from marine invertebrates. Naturwissenschaften 58, 549, 1971.
- 3547 SCHEUER, P.J. Chemistry of Marine Natural Products. Academic: N.Y., 1973.
- 3548 SCHEUER, P.J. Recent developments in the chemistry of marine toxins. Lloydia 38, 1, 1975.
- 3549 SCHEUER, P.J. The varied and fascinating chemistry of marine mollusks. Israel J. Chem. 16, 52, 1977.
- 3550 SCHEUER, P.J. Chemical communication of marine invertebrates. BioScience 27, 664, 1977.
- 3551 SCHEUER, P.J. Marine toxins. Acc. chem. Res. 10, 33, 1977.
- 3552 SCHEUER, P.J., editor. Marine Natural Products: Chemical and Biological Perspectives. 4 vols., Academic: N.Y., 1978-1981.
- 3553 SCHIFF, H. Wirkung des Cephalotoxins und anderer Pharmaka auf die glatte Muskulatur von Octopus vulgaris L. und auf das Zentralnervensystem von Squilla mantis L. Pubbl. Staz. zool. Napoli 33, 10, 1962.
- 3554 SCHMIDT, R.J. and LOEBLICH, A.R., III. A discussion of the systematics of toxic Gonyaulax species containing paralytic shellfish poison. In, Toxic Dinoflagellate Blooms. (Proc. 2nd Intern. Conf.), Taylor, D.L. and Seliger, H.H. (eds.), Elsevier/North-Holland: N.Y., vol. 1, p. 33, 1979.
- 3555 SCHMIDT, R.J. and LOEBLICH, A.R., III. Distribution of paralytic shellfish poison among Pyrrophyta. J. mar. biol. Assoc. U.K. 59, 479, 1979.
- 3556 SCHMIDTMANN. Miesmuschelvergiftung zu Wilhelmshafen im Herbst 1887. Zschr. med-Beamte 1, 19, 49, 1888.
- 3557 SCHNEE. Über giftige Schnecken. Arch. Schiffs- u. Tropenhyg. 12, 171, 1908.
- 3558 SCHUETT, W. and RAPPOPORT, H. Saxitoxin, the paralytic shellfish poison. Degradation to a pyrrolopyrimidine. J. Am. chem. Soc. 84, 2266, 1962.
- 3559 SCHWIMMER, D. and SCHWIMMER, M. Algae and medicine. In, Algae and Man. Jackson, D. (ed.), Plenum Publ.: N.Y., p. 368, 1964.
- 3560 SCHWIMMER, D. and SCHWIMMER, M. Medical aspects of phycology. In, Algae, Man and the Environment. Jackson, D. (ed.), Syracuse Univ. Press: Syracuse, N.Y., p. 279, 1968.
- 3561 SCHWIMMER, M. and SCHWIMMER, D. The Role of Algae and Plankton in Medicine. Grune & Stratton N.Y., 83p., 1955.
- 3562 SCOBEE, R.R. Paralytic shellfish disease and poliomyelitis. Arch. Pediat. 63, 350, 1947.
- 3563 SERINI, E. Sulla funzione delle ghiandole salivari posteriori dei cefalopodi. Boll. Soc. Ital. Biol. sper. 4, 479, 1929.
- 3564 SEVEN, M.J. Mussel poisoning. Ann. int. Med. 43, 891, 1958.
- 3565 SHAW, H.O.N. On the anatomy of Conus tulipa, Linn. and Conus textile, Linn. Q. J. microsc. Sci., new ser. 60, 1, 1914.

- 3566 SHEUMACK, D.D., HOWDEN, M.E.H., SPENCE, I. and QUINN, R.J. Maculotoxins a neurotoxin from the venom glands of the octopus Hapalochlaena maculosa identified as tetrodotoxin. Science 199, 188, 1978.
- 3567 SHIBOTA, M. and HASHIMOTO, Y. Purification of the Ivory shell toxin. Bull. Jpn. Soc. scient. Fish. 36, 115, 1970.
- 3568 SHIBOTA, M. and HASHIMOTO, Y. Further purification of the Ivory shell toxin. Bull. Jpn. Soc. scient. Fish. 37, 936, 1971.
- 3569 SHIMIZU, Y. Purification and partial characterization of toxins from poisonous clams. In, Proceedings of the First International Conference on Toxic Dinoflagellate Blooms. LoCicero, V.R. (ed.), Mass. Sci. Tech. Found.: Wakefield, Mass., p. 275, 1975.
- 3570 SHIMIZU, Y. Dinoflagellate toxins. In, Marine Natural Products: Chemical and Biological Perspectives. Scheuer, P.J. (ed.), Academic N.Y., p. 1, 1978.
- 3571 SHIMIZU, Y. Developments in the study of paralytic shellfish toxins. In, Toxic Dinoflagellate Blooms. (Proc. 2nd Intern. Conf.), Taylor, D.L. and Seliger, H.H. (eds.), Elsevier/North-Holland: N.Y., vol. 1, p. 321, 1979.
- 3572 SHIMIZU, Y. and RAGELIS, E. Alternatives to the mouse assay. In, Toxic Dinoflagellate Blooms. (Proc. 2nd Intern. Conf.), Taylor, D.L. and Seliger, H.H. (eds.), Elsevier/North-Holland: N.Y., vol. 1, p. 453, 1979.
- 3573 SHIMIZU, Y., ALAM, M., OSHIMA, Y. and FALLON, W.E. Presence of four toxins in red tide infested clams and cultured Gonyaulax tamarensis cells. Biochem. Biophys. res. Commun. 66, 731, 1975.
- 3574 SHIMIZU, Y., HSU, C.P., MAR-CHAND, A. et al. Paralytic shellfish toxins in the sea scallop, Placopecten magellanicus, in the Bay of Fundy. J. Can. Fish. Res. Bd. 36, 32, 1979.
- 3575 SILVA FREIRE, J.B. Peixes, moluscos e crustáceos na alimentação e sua inspeção sanitária. Oficinas Gráficas da Sociedade de Papelaria, Ltda., Porto, p. 284, 1939.
- 3576 SIMON, B., MEBS, D., GEMMER, H. and STILLE, W. [Poisoning after ingestion of mussels (Mytilus edulis)] Dtsch. Med. Wschr. 102, 1114, 1977.
- 3577 SIMON, S.E., CAIRNCROSS, K.D., STACHELL, D.G., GAY, W.S. and EDWARDS, S. The toxicity of Octopus maculosus Hoyle venom. Arch. intern. Pharmacodyn. 149, 318, 1964.
- 3578 SNEADER, W. Poisonous red tide. New Scientist 38, 706, 1968.
- 3579 SNOW, C.D. Two accounts of the northern octopus, Octopus doerleinii, biting scuba divers. Oregon Fish. Comm. Res. Rept. 2, 103, 1970.
- 3580 SO, L.C. and BUENAFLORE, H.G. Chemical nature of toxins from venoms of Conus geographicus and Conus magus. Kalikasan 6, 82, 1977.
- 3581 SOMMER, H. The occurrence of the paralytic shell-fish poison in the common sand-crab. Science 76, 574, 1932.
- 3582 SOMMER, H. Marine plankton and paralytic shellfish poisoning.

- Proc. 6th Pac. Sci. Congr. 3, 415, 1939.
- 3583 SOMMER, H. and MEYER, K.F. Mussel poisoning. Calif. west. Med. 42, 423, 1935.
- 3584 SOMMER, H. and MEYER, K.F. Paralytic shellfish poisoning. Arch. Pathol. 24, 560, 1937.
- 3585 SOMMER, H. and MEYER, K.F. Mussel poisoning—a summary. Week. Bull. Calif. State Dept. pub. Hlth. 20, 53, 1941.
- 3586 SOMMER, H., WHEDON, W.F., KOFOID, C.A. and STOHLER, R. Relation of paralytic shellfish poison to certain plankton organisms of the genus Gonyaulax. Arch. Path. 24, 537, 1937.
- 3587 SOMMER, H., MONNIER, R.P., RIEGEL, B. et al. Paralytic shellfish poison. I. Occurrence and concentration by ion exchange. J. Am. chem. Soc. 70, 1015, 1948.
- 3588 SOMMER, H., RIEGEL, B., STANGER, D.W. et al. Paralytic shellfish poison. II. Purification by chromatography. J. Am. chem. Soc. 70, 1019, 1948.
- 3589 SONGDAHL, J.H. The venom and venom apparatus of the Atlantic cone, Conus spurius atlanticus (Clench). Bull. mar. Sci. 23, 600, 1973.
- 3590 SONGDAHL, J.H. and LANE, C.E. Some pharmacological characteristics of the venom of the alphabet cone, Conus spurius atlanticus. Toxicon 8, 289, 1970.
- 3591 SONGDAHL, J.H. and SHAPIRO, B.I. Purification and composition of a toxin from the posterior salivary gland of Octopus dofleini. Toxicon 12, 109, 1974.
- 3592 SOUTHCOTT, R.V. Human injuries from invertebrate animals in the Australian seas. Clin. Toxicol. 3, 617, 1970.
- 3593 SOUTHCOTT, R.V. The neurologic effects of noxious marine creatures. In, Contemporary Neurology Series. Hornabrook, R.W. (ed.), F.A. Davis: Philadelphia, Vol. 12, p. 165, 1975.
- 3594 SOUTHCOTT, R.V. Marine envenomation and intoxication in man. In, Neurotoxins. Fundamental and Clinical Advances. Chubb, I.W. and Geffen, L.D. (eds.), Adelaide Univ. Press: Adelaide, p. 73, 1978.
- 3595 SOUTHCOTT, R.V. Marine toxins. In, Handbook of Clinical Neurology. Vinken, P.J. and Bruyn, G.W. (eds.), Elsevier/North-Holland: Amsterdam, vol. 37, part 2, p. 27, 1979.
- 3596 SPARKS, A.K. Ecology of paralytic shellfish toxicity in Washington. Res. Fish. Contrib. 116, 26, 1961.
- 3597 SPARKS, A.K. Physiological ecology of the causative organisms including mechanisms of toxin accumulation in shellfish—continued. In, Proceedings of the Joint Sanitation Seminar on North Pacific Clams. Felsing, W.A., Jr. (ed.), Govt. Print. Off.: Washington, p. 10, 1965.
- 3598 SPARKS, A.K., SRIBHIBHADH, A., CHEW, K.K. and PEREYRA, D. Ecology of paralytic shellfish toxicity in Washington. Res. Fish. Contrib. 139, 39, 1962.
- 3599 SPENCE, I., GILLESSEN, D., QUINN, R. and GREGSON, R. Mechanism of action of the venom of Conus geographus. Proc. Aust. pharmacol. Soc. 8, (1), 1977.

- 3600 SPENCE, I., GILLESSEN, D., GREGSON, R.P. and QUINN, R.J. Characterization of neurotoxic constituents of *Conus geographus* (L.) venom. Life Sci. 21, 1759, 1977.
- 3601 STEPHENSON, N.R., EDWARDS, H.J., MAC DONALD, B.F. and PUGSLEY, L.J. Biological assay of the toxin from shellfish. Can. J. Biochem. Physiol. 33, 849, 1955.
- 3602 STEVENS, A.A. Investigations on *Gymnodinium breve* toxins in shellfish. Rept. U.S.P.H.S. Gulf Coast Water Hyg. Lab., Dauphin Island, Alabama, 85p., 1970.
- 3603 STEVENSON, T. Poisoning by mussels. Guy's Hosp. Rept. 19, 420, 1874.
- 3604 STRICHARTZ, G.R. Marine toxins as probes of excitable membranes. In, Toxic Dinoflagellate Blooms. (Proc. 2nd Intern. Conf.), Taylor, D.L. and Seliger, H.H. (eds.), Elsevier/North-Holland N.Y., vol. 1, p. 484, 1979.
- 3605 STRICHARTZ, G.R., WANG, G., SCHMIDT, J., HAHN, R. and SHAPIRO, B.J. Modification of ionic currents in frog nerve by crude venom and isolated peptides of the mollusk, *Conus striatus*. Fed. Proc. 39, 2063, 1980.
- 3606 STRONG, R.P. Poisonous arthropods, fish, and coelenterates. In, Stitt's Diagnosis, Prevention and Treatment of Tropical Diseases. P. Blakiston's Son & Co. Philadelphia, vol. 2, 1544, 1944.
- 3607 SUGITANI, F. [On the poisoning by the bite of *Conus geographus* Linne.] Venus 2, 151, 1930.
- 3608 SULLIVAN, R.A. North Sea foundation investigation techniques. Mar. Geotechnol. (U.K.) 4, 1, 1980.
- 3609 SUTHERLAND, S.K. Treatment of venomous animal bites and stings in Australia. Med. J. Aust. (1), 177, 1976.
- 3610 SUTHERLAND, S.K. and BROAD, A.J. Tetrodotoxin in the blue-ringed octopus. Med. J. Aust. (2), 34, 1978.
- 3611 SUTHERLAND, S.K. and LANE, W.R. Toxins and mode of envenomation of the common blue-ringed or blue-banded octopus. Med. J. Aust. (1), 893, 1969.
- 3612 SUTHERLAND, S.K., BROAD, A.J. and LANE, W.R. Octopus neurotoxins: low molecular weight non-immunogenic toxins present in the saliva of the blue-ringed octopus. Toxicon 8, 249, 1970.
- 3613 SWAYNE, V.R. and MARTIN, G.J. Absorption of paralytic shell fish poison. Am. J. digest. Dis. 17, 39, 1950.
- 3614 TAFT, C.H. Poisonous marine animals. Texas Rept. Biol. Med. 3, 339, 1943.
- 3615 TAKAHASHI, T., SERISAWA, S., OKA, S. et al. [Experimental cirrhosis of the liver, induced by shell-fish poison, with special reference to the pathogenesis of fibrosis.] Sogo Igaku 12, 81, 1955; see also Nippon Naikagakkai Zasshi 42, 143, 1953.
- 3616 TAKENAKA, S., SAWADA, G. and YOSHIOKA, M. On the poisonous abalone. Tokyo Iji Shinshi 1114, 1359, 1899.

- 3617 TAKEUCHI, T., MORIKAWA, N., MATSUMOTO, H. and SHIRAI, Y. A pathological study of Minamata disease in Japan. Acta Neuropath. 2, 40, 1962.
- 3618 TAKEUCHI, T., KAMBARA, T., MORIKAWA, N. et al. Pathologic observations of the Minamata disease. Acta Pathol. Jpn. (Suppl.) 9, 769, 1959.
- 3619 TANGEN, K. Dinoflagellate blooms in Norwegian waters. In, Toxic Dinoflagellate Blooms. (Proc. 2nd Intern. Conf.), Taylor, D.L. and Seliger, H.H. (eds.), Elsevier/North-Holland: N.Y., vol. 1, p. 179, 1979.
- 3620 TANNER, F.W. and TANNER, L.P. Foodborne Infections and Intoxications. 2nd edit., Gerrard Press: Champaign, Ill., 1953.
- 3621 TAYLOR, F.J.R. Taxonomic difficulties in red tide and paralytic shellfish poison studies: the "tamarensis complex" of *Gonyaulax*. Environ. Lett. 9, 103, 1975.
- 3622 TAYLOR, K.M. and SPENCE, I. Marine natural products affecting neurotransmission. In, Neurotoxins. Fundamental and Clinical Advances. Chubb, I.W. and Gefen, L.B. (eds.), Adelaide Univ. Union Press: Adelaide, S. Australia, p. 85, 1979.
- 3623 TENNANT, A.D. Paralytic shellfish poisoning in eastern Canada. Bull. Can. Fish. Res. Bd. (177), 1971.
- 3624 TENNANT, A.D., NAUBERT, J. and CORBELL, H.E. An outbreak of paralytic shellfish poisoning. Can. med. Assoc. J. 72, 436, 1955.
- 3625 TERADA, Y. [On the cause of the shellfish poisoning at Toyohashi City.] Mie med. J. 3, 205, 1953.
- 3626 THESEN, J. Studier over den paralytiske form af forgiftning med blaaskjæl (*Mytilus edulis* L.). Tidsskr. Norske Laegeforen. 20, 1153; 21, 1228; 22, 1285, 1901.
- 3627 THESEN, J. Studien über die paralytische Form von Vergiftung durch Muscheln (*Mytilus edulis* L.). Arch. exp. Path. Pharmacol. 47, 311, 1902.
- 3628 THIEL, M.E. Über die Wirkung des Nesseltgiftes der Quallen auf den Menschen. Ergeb. Fortschr. Zool. 8, 1, 1935.
- 3629 THOMPSON, T.E. Defensive acid-secretion in marine gastropods. J. mar. Biol. Assoc. U.K. 39, 115, 1960.
- 3630 THOMPSON, T.E. Epidermal acid-secretion in some marine polyclad turbellaria. Nature 206, 954, 1965.
- 3631 TIFFANY, W.J., III and HEYL, M.G. Invertebrate mass mortality induced by a *Gymnodinium breve* red tide in Gulf of Mexico waters at Sarasota, Florida. J. environ. Sci. Hlth. (Part A) 13, 653, 1978.
- 3632 TODD, G.B. Case of poisoning by mussels. Br. med. J. (2), 749, 1891.
- 3633 TOGASHI, M. [Clinical study of the poisoning by *Venerupis semidecussata*.] Jpn. Iji Shimpo, May, 1943.
- 3634 TRETHEWIE, E.R. Pharmacological effects of the venom of the common octopus *Hapalochlaena maculosa*. Toxicon 3, 55, 1965.
- 3635 TRETHEWIE, E.R. Tetrodotoxin in the blue-ringed octopus. Med. J. Aust. (1), 506, 1978.

- 3636 TROSCHER, F.H. Das Gebiss der Schnecken zur Begründung einer natürlichen Classification. Nicolaische Verlagsbuch Handlung: Berlin, vol. 2, 1893.
- 3637 TSUDA, R.T. and RANDALL, J.E. Food habits of the gastropods Turbo argyrostoma and T. vetulus, reported as toxic from the tropical Pacific. Micronesia 7, 153, 1971.
- 3638 TSURIEL, P.S. A case of Conus ermineus sting in West Africa. Levantina (Israel) 18, 204, 1979.
- 3639 TSURIEL, P.S. Oyster poisoning in Australia. Levantina (Israel) 19, 215, 1979.
- 3640 TSURIEL, P.S. Shellfish poisoning in New Guinea and West Germany. Levantina (Israel) 22, 246, 1979.
- 3641 TSUTSUMI, J. and HASHIMOTO, Y. Isolation of pyropheophorbine A as a photodynamic pigment from the liver of abalone Haliotis discus hannai. Agric. Biol. Chem. 28, 467, 1964.
- 3642 TUFTS, N.R. Molluscan transvectors of paralytic shellfish poisoning. In, Toxic Dinoflagellate Blooms. (Proc. 2nd Intern. Conf.), Taylor, D.L. and Seliger, H.H. (eds.), Elsevier/North-Holland: N.Y., vol. 1, p. 403, 1979.
- 3643 TURNER, R.J. and FREEMAN, S.E. Factors affecting the muscle depolarization due to Conus achatinus toxin. Toxicon 12, 49, 1974.
- 3644 TWAROG, B.M. Immunity to paralytic shellfish toxin in bivalve molluscs. Proc. 2nd Int. Symp. Coral Reefs 1, 505, 1974.
- 3645 TWAROG, B.M. Resistance to paralytic shellfish toxins in bivalve molluscs. In, Proceedings of the First International Conference on Toxic Dinoflagellate Blooms. LoCicero, V.R. (ed.), Mass. Sci. Tech. Found.: Wakefield, Mass., p. 381, 1975.
- 3646 TWAROG, B.M., HIDAKA, T. and YAMAGUCHI, H. Resistance to tetrodotoxin and saxitoxin in nerves of bivalve molluscs. A possible correlation with paralytic shellfish poisoning. Toxicon 10, 273, 1972.
- 3647 UCHIDA, T., KAWAMATA, K. and MISHIHAMA, Y. [Vertical distribution of paralytic toxin producing species of Protogonyaulax sp. in Funka Bay, Hokkaido, Japan.] Jpn. J. Phycol. 28, 133, 1980.
- 3648 UNDERDAL, B., YNDESTAD, M., OLBERG, I.H. and SORLIE, G.A. Mytilotoxin in mussels (Mytilus edulis L.) from different localities in Norway. Sarsia 65, 53, 1980.
- 3649 UPSHUR, J.N. Convulsions following the ingestion of unsound oysters. N.Y. med. J. 52, 583, 1890.
- 3650 U.S. PUBLIC HEALTH SERVICE. Tentative standard procedure for the determination of shellfish (mussels or soft clams) poison, adopted November 19, 1943 (with suggestions of 1950).
- 3651 U.S. PUBLIC HEALTH SERVICE. Sanitary control of the shellfish industry. Part II. Sanitation of the harvesting and processing of shellfish. Spec. Publ. (33), 26p., 1957.
- 3652 U.S. PUBLIC HEALTH SERVICE. Manual of recommended practice

- of sanitary control of the shellfish industry. Part I. Sanitation of shellfish growing areas. Rev. edit., Spec. Publ. (33), 36p., 1959.
- 3653 U.S. PUBLIC HEALTH SERVICE. Manual of recommended practice for sanitary control of the shellfish industry. Part III. Public health service appraisal of state shellfish sanitation programs. Spec. Publ., 39p., 1962.
- 3654 U.S. PUBLIC HEALTH SERVICE. "Littleneck" as well as "butter" clams are found toxic. Alaska's Hlth. Wlfr. 19, 1, 1962.
- 3655 U.S. PUBLIC HEALTH SERVICE. National shellfish sanitation program manual of operations. Part I. Sanitation of shellfish growing areas. Part I. Sanitation of shellfish growing areas. Houser, L.S. (ed.), U.S. Dept. Hlth. Ed., Wlfr., Washington, 31p., 1965.
- 3656 VAN THOAI, N. and ROCHE, J. Phosphagens of marine animals. Ann. N.Y. Acad. Sci. 90, 923, 1960.
- 3657 VAN ZANT, C.B. Fish and shellfish poisoning, with illustrative cases. Colorado Med. 11, 453, 1914.
- 3658 VAUGHAN, V.C. Food poisoning. Sci. Month. 71, 155, 1950.
- 3659 VAYSSIÈRE, M.A. Recherches zoologiques et anatomiques sur les mollusques opisthobranches du golfe de Marseille. Part I, Tectibranches. Ann. Mus. nat. Marseille Zool. (Mém. 3), 2, 5, 1885.
- 3660 VIALLI, M. Sulle caratteristiche istochimiche della ghiandola della porpora in Murex trunculus. Boll. Soc. Ital. Biol. sper. 9, 203, 1934.
- 3661 VIALLI, M. Contributo alla conoscenza istochimica delle ghiandole salivari posteriori di Eledone moschata e di Octopus macropus. Boll. Soc. Ital. Biol. sper. 22, 107, 1946.
- 3662 VIALLI, M. and ERSPAMER, V. Ricerche istochimiche sulla ghiandola salivare posteriore di Octopus vulgaris. Mikrochemie 24, 253, 1938.
- 3663 VIALLI, M. and ERSPAMER, V. Ricerche di caratterizzazione chimica delle sostanze fenoliche presenti negli estratti acetonicici di ghiandole salivari posteriori di Octopus vulgaris. Arch. Fisiol. 40, 293, 1940.
- 3664 VIGIER, M.P. Sur le rôle des glandes salivaires des céphalopodes. C.R. Soc. Biol. 58, 429, 1905.
- 3665 VINCENT, D. and JULLIEN, A. L'activité cholinestérasique des extraits myocardiques chez les mollusques. C.R. Soc. Biol. 127, 631, 1938.
- 3666 VINCENT, D. and JULLIEN, A. Contribution à l'étude de la cholinestérase chez les invertébrés. La cholinestérase de l'hémolymph des mollusques. C.R. Soc. Biol. 127, 628, 1938.
- 3667 VINCENT, D. and JULLIEN, A. De la teneur des principaux organes de Murex en esters de la choline. C.R. Soc. Biol. 129, 602, 1938.
- 3668 VINCENT, D. and JULLIEN, A. La teneur en acétylcholine du cœur des Mollusques. C.R. Soc. Biol. 127, 334, 1938.
- 3669 VINCENT, D. and JULLIEN, A. Richesse de la glande à pourpre des Murex en esters de la choline. C.R. Soc. Biol. 127, 1506, 1938.

- 3670 VIRCHOW, R. Ueber die Vergiftungen durch Miesmuscheln in Wilhelmshaven. Berl. klin. Wschr. 22, 781, 1885.
- 3671 VIRCHOW, R. Beiträge zur Kenntniss der giftigen Miesmuscheln. Arch. Pathol. Anat. Physiol. 104, 161, 1886.
- 3672 VON BONDE, C. Mussel and fish poisoning. Afr. med. J. 22, 760, 1948.
- 3673 WALDICHUK, M. Shellfish toxicity and the weather in the Strait of Georgia during 1957. Fish. Res. Bd. Can., Prog. Rept., Pac. Coast Sta. (112), 10p., 1958.
- 3674 WALKER, S. and KAO, C.Y. Structure-activity relations of saxitoxin analogs. Fed. Proc. 39, 380, 1980.
- 3675 WASKIEWICZ, S., CARLSON, C.J., MAGNUSSON, H.W., CRAVEN, H.J. and GALERMAN, D.M. Technological studies on the Alaska butter clam Saxidomus giganteus, from 1946 to 1951; V. A study of processing methods for toxic butter clams. Fish. exp. Comm. Alaska, Fish. Prod. Lab., Ketchikan, Tech. Rept. (K-26), 13p., 1954.
- 3676 WATSON, M. Some aspects of the pharmacology, chemistry and biology of the midgut gland toxins of some Hawaiian sea hares, especially Dolabella auricularia and Caplysia pulmonica. Thesis, University of Michigan, 1969.
- 3677 WATSON, M. Midgut gland toxins of Hawaiian sea hares—I. Isolation and preliminary toxicological observations. Toxicon 11, 259, 1973.
- 3678 WATSON, M. and RAYNER, M.D. Midgut gland toxins of Hawaiian sea hares—II. A preliminary pharmacological study. Toxicon 11, 269, 1973.
- 3679 WATTS, J.S., DA COSTA, F.M. and REILLY, J. Some factors influencing the action of paralytic shellfish poison in rats. Fed. Proc. 24, 392, 1965.
- 3680 WATTS, J.S., OVERPECK, J.G. and REILLY, J. Influence of functional development on convulsions to shellfish. Fed. Proc. 25, 555, 1966.
- 3681 WATTS, J.S., REILLY, J., DA COSTA, F.M. and KROP, S. Acute toxicity of paralytic shellfish poison in rats of different ages. Toxicol. appl. Pharmacol. 8, 286, 1966.
- 3682 WEIGLE, J.B. and BARCHI, R.L. Analysis of saxitoxin binding in isolated rat synaptosomes using a rapid filtration assay. F.E.B.S. Lett. 91, 310, 1978.
- 3683 WELSH, J.H. Composition and mode of action of some invertebrate venoms. Ann. Rev. Pharmacol. 4, 293, 1964.
- 3684 WELSH, J.H. and MOORHEAD, M. Identification and assay of 5-hydroxytryptamine in molluscan tissues by fluorescence method. Science 129, 1491, 1959.
- 3685 WELSH, J.H. and MOORHEAD, M. The quantitative distribution of 5-hydroxytryptamine in the invertebrates, especially in their nervous systems. J. Neurochem. 6, 146, 1960.
- 3686 WHEDON, W.F. Spawning habits of the mussel Mytilus californianus Conrad, with notes on the possible relation to mussel poison. Univ. Calif. Publ. Zool. (Los Angeles) 41, 35, 1936.

- 3687 WHITE, A.W. Salinity effects on growth and toxin content of Gonyaulax excavata, a marine dinoflagellate causing paralytic shellfish poisoning. J. Phycol. 14, 475, 1978.
- 3688 WHITE, A.W. and MARANDA, L. Paralytic toxins in dinoflagellate Gonyaulax excavata and in shellfish. J. Can. Fish. Res. Bd. 35, 397, 1978.
- 3689 WHITLEY, G.P. Dangerous Australian fishes. Proc. First Intern. Convention Life Saving Techniques, Part III, Sci. Sect., Bull. Post Grad. Comm. Med., Univ. Sydney, Australia, p. 131, 1963.
- 3690 WHITTAKER, V.P. Pharmacologically active choline esters in marine gastropods. Ann. N.Y. Acad. Sci. 90, 695, 1960.
- 3691 WHITTAKER, V.P. and WIJESUNDERA, S. The separation of esters of choline by filter-paper chromatography. Biochem. J. 51, 348, 1952.
- 3692 WHYSNER, J.A. and SAUNDERS, P.R. Studies on the venom of the marine snail Conus californicus. Toxicon 1, 113, 1963.
- 3693 WHYSNER, J.A. and SAUNDERS, P.R. Purification of the lethal fraction of the venom of the marine snail Conus californicus. Toxicon 4, 177, 1966.
- 3694 WHYTE, J.M. Muscle paralysis by cone shell venom. Aust. J. Sci. 25, 99, 1962.
- 3695 WHYTE, J.M. and ENDEAN, R. Pharmacological investigation of the venoms of the marine snails Conus textile and Conus geographus. Toxicon 1, 25, 1962.
- 3696 WIBERG, G.S. and STEPHENSON, N.R. Toxicologic studies on paralytic shellfish poison. Toxicol. appl. Pharmacol. 2, 607, 1960.
- 3697 WIBERG, G.S. and STEPHENSON, N.R. The effect of metal ions on the toxicity of paralytic shellfish poison. Toxicol. appl. Pharmacol. 3, 707, 1961.
- 3698 WIDDOWS, J., MOORE, M.N., LOWE, D.M. and SALKELD, P.N. Some effects of a dinoflagellate bloom (Gyrodinium aureolum) on the mussel, Mytilus edulis. J. mar. Biol. Assoc. U.K. 59, 522, 1979.
- 3699 WIENER, S. Preliminary studies on the venom of the marine snail Conus. Ann. N.Y. Acad. Sci. 90, 706, 1960.
- 3700 WIKHOLM, D.M. I. Studies on the toxic principle and accompanying bases found in the sea mussel, Mytilus californianus, Conrad. II. Studies on the toxic principle and the accompanying bases found in the marine plankton organism, Gonyaulax catenella Whedon and Kofoid. Thesis, Northwestern Univ., 124p., 1947.
- 3701 WINKLER, L.R. Preliminary tests of the toxin extracted from the California sea hares of the genus Aplysia. Pac. Sci. 15, 211, 1961.
- 3702 WINKLER, L.R. and ASHLEY, L.M. The anatomy of the common octopus of northern Washington. Walla Walla Coll., Dept. Biol. Sci. Sta. (10), 29p., 1954.
- 3703 WINKLER, L.R. and DAWSON, E.Y. Observations and experiments on the food habits of California sea hares of the genus Aplysia. Pac. Sci. 17, 102, 1963.
- 3704 WINKLER, L.R. and TILTON, B.E. Predation on the California sea hare, Aplysia californica Cooper,

- by the solitary great green sea-anemone, Anthopleura xanthogrammica (Brandt), and the effect of the sea-hare toxin and acetylcholine on anemone muscle. Pac. Sci. **16**, 286, 1962.
- 3705 WINKLER, L.R., TILTON, B.E. and HARDINGE, M.G. A cholinergic agent extracted from sea hares. Arch. intern. Pharmacodyn. **137**, 76, 1962.
- 3706 WISTAR, E.M. Poisonous cones. In, Buttonwood Farm Shell Auction. Marine and Land Shells. Chestnut Hill: Philadelphia, p. 46, 1957.
- 3707 WOLFF, M. Die Lokalisation des Giftes in den Miesmuscheln. Arch. Path. Anat. **103**, 187, 1886.
- 3708 WOLFF, M. Die Ausdehnung des Gebietes der giftigen Miesmuscheln und der sonstigen giftigen Seethiere in Wilhelmshaven. Verhandl. Berliner Med. Gesellsch. **17**, 71, 1886; see also Virchows Arch. **104**, 108, 1886.
- 3709 WOLFF, M. Über das erneute Vorkommen von giftigen Miesmuscheln in Wilhelmshaven. Arch. Pathol. Anat. Physiol. **110**, 376, 1887.
- 3710 WOLFSON, F.H. Cones: beautiful but dangerous snails of the sea. Animal Kingdom **73**, 6, 1970.
- 3711 WOLOSZYNSKA, J. and CONRAD, W. Pyrodinium phoneus, n. sp., agent de la toxicité des moules du canal maritime de Bruges à Zeebrugge. Bull. Mus. Hist. nat. Belg. **13**, 1, 1939.
- 3712 WOOD, P.C. Distribution of toxin in molluscan shellfish following the occurrence of mussel toxicity in north-east England. Nature **220**, 25, 1968.
- 3713 WOOD, P.C. Toxins in the red whelk. Mar. Pollut. Bull. (U.K.), **4**, 157, 1973.
- 3714 WOOD, P.C. Public health aspects of shellfish from polluted waters. In, Biologica! Indicators of Water Quality. James, A. and Evison, L. (eds.), John Wiley & Sons: Chichester, chap. 13, p. 1, 1979.
- 3715 WOOD, P.C. Guide to shellfish hygiene. Wld. Hlth. Org. Offset Publ. No. 31.
- 3716 WOODWARD, G. Conference on shellfish toxicology. Publ. Hlth. Serv., Washington, D.C., p. 26, 1955.
- 3717 WOODWARD, S.P. Manual of the Mollusca. Lockwood & Co.: London, 228p., 1875.
- 3718 YAMAMURA, S. and HIRATA, Y. A naturally-occurring bromo-compound, aplysin-20 from Aplysia kurodai. Bull. chem. Soc. Jpn. **44**, 2560, 1971.
- 3719 YASIRO, H. [Fatal bites of Conus geographus.] Venus **9**, 165, 1939.
- 3720 YASUMOTO, T. Pharmacologically active amines in a turban shell, Turbo argyrostoma. In, Animal, Plant and Microbial Toxins. Ohsaka, A., Hayashi, K. and Sawai, Y. (eds.), Plenum: N.Y., vol. 1, p. 311, 1974.
- 3721 YASUMOTO, T. and KANNO, K. Occurrence of toxins resembling ciguatoxin, scaritoxin, and maitotoxin in a turban shell. Bull. Jpn. Soc. scient. Fish. **42**, 1399, 1976.
- 3722 YASUMOTO, T. and KOTAKI, Y. Occurrence of saxitoxin in a green turban shell. Bull. Jpn. Soc. scient. Fish. **43**, 207, 1977.
- 3723 YASUMOTO, T., OSHIMA, Y. and YAMAGUCHI, M. Occurrence of

a new type of toxic shellfish in Japan and chemical properties of the toxin. In, Toxic Dinoflagellate Blooms. (Proc. 2nd Intern. Conf.), Taylor, D.L. and Seliger, H.H. (eds.), Elsevier/North-Holland: N.Y., vol. 1, p. 395, 1979.

- 3724 YASUMOTO, T., WATANBE, T. and HASHIMOTO, Y. [Physiological activities of starfish saponin.] Bull. Jpn. Soc. scient. Fish. 30, 357, 1964.
- 3725 YENTSCH, C.M. and MAGUE, F.C. Motile cells and cysts: two probable mechanisms of intoxication of shellfish in New England waters. In, Toxic Dinoflagellate Blooms. (Proc. 2nd Intern. Conf.), Taylor, D.L. and Seliger, H.H. (eds.), Elsevier/North-Holland: N.Y., vol. 1, p. 127, 1979.
- 3726 YOSHIBA, S. [Venom of a stinging snail Bekkoimogai Chelyconus vulmen (Reeve, 1943)—especially on its toxicities against various animals.] Jpn. J. med. Sci. Biol. 32, 109, 1979.
- 3727 YOUNG, J.Z. The nervous pathways for poisoning, eating and learning in Octopus. J. exp. Biol. 43, 581, 1965.
- 3728 ZLOTKIN, E. Chemistry of animal venoms. Experientia 29, 1453, 1973.
- 3729 ZWAHLEN, A., BLANC, M.H. and ROBERT, M. Epidémie d'intoxication par les moules. Schweiz. méd. Wschr. 107, 226, 1977.

CHAPTER VIII

PLATYHELMINTHES, NEMERTEA, ANNELIDA, ARTHROPODS, AND BRYOZOA

The phylum Platyhelminthes, the flatworms, are characterized by flat and bilaterally symmetrical, unsegmented bodies, ciliated epidermis, and definite anterior and posterior ends. They have both circulatory and respiratory systems. The carnivorous turbellarians, of which there are approximately 2,000 species, are thought to be the only group of flatworms that are toxic.

The Nemertea, or ribbon worms, are a small group of slender, unsegmented worms distinguished from the Platyhelminthes by their rounded unsegmented body, which usually tapers somewhat toward one or both ends. They have a prominent, eversible proboscis, a circulatory system, and a digestive system with a mouth and anus. Most of the 800 living species are marine. Envenomation takes place through the threadlike proboscis, which is extended explosively during the capture of prey or on handling.

The Annelida, or bristle worms, blood worms and polychaete worms are elongated, segmented, bilaterally symmetrical; segments resemble each other essentially in both their external and internal appearances. They have a nonchitinous cuticle, although most members have chitinous setae, and a complete digestive system, a closed circulatory system, and, in some species, a well-developed chitinous jaw. The toxicity of the marine annelids is associated with their bristle-like setae or their biting jaws. Some species contain a poison within their bodies.

Arthropods make up the largest phylum in the animal kingdom, some one million species. The phylum includes the crabs, shrimps, barnacles and other crustaceans, spiders, scorpions, insects, ticks and their allies, centipedes, and millipedes. They have bodies that are segmented externally in varying degrees and often show a divided head, thorax, and abdomen. The appendages are joined, and their external surfaces are covered by an organic exoskeleton. Arthropods have a complete digestive tract with a terminal anus and a lacunar circulatory system; they respire by means of gills, air ducts, and book lungs, or through the body surface. Most of the poisonous marine arthropods are crabs found in the class Merostomata (Chelicerata), the horseshoe crabs.

The Bryozoa and Entoprocta are small, sessile, tufted or branched colonial animals bearing a hardened exoskeleton and a true coelom but no circulatory, respiratory or excretory organs. They reproduce by budding. Of the 4,000 or so species only a few have been found to be toxic or have been implicated in medical problems involving humans.

- 3730 ALCALA, A.C. and HALSTEAD, B.W. Human fatality to ingestion of the crab *Demania* sp. in the Philippines. Clin. Toxicol. 3, 609, 1971.
- 3731 ANNANDALE, N. The habits of Indian king crabs. Rec. Indian Mus. 3, 294, 1909.
- 3732 ANON. Plenary session: report of "B" group. Proc. First Intern. Convention Life Saving Techniques. Part III, Sci. Sect., Bull. Post Grad. Comm. Med., Univ. Sydney, Australia, p. 121, 1963.
- 3733 ANON. Water, water everywhere. Emerg. Med. 5, 108, 1973.
- 3734 ARNDT, W. Über die Gifte der Plattwürmer. Verhandl. Deut. zool. Ges. 30, 135, 1925.
- 3735 ARNDT, W. Polycladen und maricole Tricladen als Giftträger. Mém. Estud. Mus. Zool. Univ. Coimbra 148, 1, 1943.
- 3736 ARNDT, W. and MANTEUFEL, P. Die Turbellarien als Träger von Giften. Z. Morphol. Oekol. Tiere 3, 344, 1925.
- 3737 AUDEBERT, C. and LAMOUREX, P. Eczema professionnel du marin pêcheur par contact de bryozoaires en Baie de Seine (premiers cas français 1975-1977). Ann. Derm. Venereol. (Paris) 105, 187, 1978.
- 3738 BACQ, Z.M. Les poisons des némerertiens. Bull. Cl. Sci., Acad. R. Belg. S, 22, 1072, 1936.
- 3739 BACQ, Z.M. L'"amphiporine" et la "némertine" poisons des vers némerertiens. Arch. intern. Physiol. 44, 190, 1937.
- 3740 BACQ, Z.M. and FLORKIN, M. Sur la spécificité des principes extraits de la région neuroglandulaire de l'ascidie *Clona intestinalis*. Experientia 2, 11, 1946.
- 3741 BAGNIS, R. A case of coconut crab poisoning. Clin. Toxicol. 3, 585, 1971.
- 3742 BAGNIS, R., BERGLUND, P.S., ELIAS, P.S. et al. Problems of toxicants in marine food products. I. Marine biotoxins. Bull. Wld. Hlth. Org. 42, 69, 1970.
- 3743 BALTZER, F. Über die Giftigkeit der weiblichen Bonellia-Gewebe auf das Bonellia-Männchen und andere Organismen und ihre Beziehung zur Bestimmung des Geschlechts der Bonellia-Larve. Mitt. naturf. Ges. Bern 8, 1, 1924.
- 3744 BALTZER, F. Über die Giftwirkung weiblicher Bonellia-Gewebe auf das Bonellia-Männchen und andere Organismen und ihre Beziehung zur Bestimmung des Geschlechts der Bonellienlarve. Mitt. naturf. Ges. Bern 8, 98, 1925.
- 3745 BALTZER, F. Ueber die Giftwirkung der weiblichen Bonellia und ihre Beziehung zur Geschlechtsbestimmung der Larve. Rev. Suisse Zool. Geneve 32, 87, 1925.
- 3746 BANNER, A.H. and RANDALL, J.E. Preliminary report on marine biology study of Onotoa Atoll, Gilbert Islands. Atoll Res. Bull. 13, 43, 1925.
- 3747 BANNER, A.H. and STEPHENS, B.J. A note on the toxicity of the horseshoe crab in the Gulf of Thailand. Nat. Hist. Bull. Siam Soc. 21, 197, 1966.
- 3748 BISWAS, N.N. Poisoning after taking crabs. Indian med. Rec. 52, 162, 1932.
- 3749 BLUMENTHAL, K.M. and KEM, W.R. Structure and action of Heteronemertine polypeptide toxins

(primary structure of *Cerebratulus lacteus* toxin B-IV). J. Biol. Chem. 251, 6025, 1976.

- 3750 BLUMENTHAL, K.M. and KEM, W.R. Structure and action of Heteronemertine polypeptide toxins (disulfide bonds of *Cerebratulus lacteus* toxin B-IV). J. Biol. Chem. 252, 3328, 1977.
- 3751 BLUMENTHAL, K.M. and KEM, W.R. Structure-function relationships in *Cerebratulus* toxin B-IV. In, Natural Toxins. Eaker, D. and Wadström, T. (eds.), Pergamon: Oxford, p. 487, 1980.
- 3752 BONNEVIE, P. Etiologico-pathogenetical experiences of professional skin diseases with a view to their prophylaxis. Acta Derm. Venereol. 20, 632, 1939.
- 3753 BONNEVIE, P. Fishermen's "Dogger bank itch" an allergic contact-eczema due to the coralline *Alcyonidium hirsutum*, the "sea chervil." Acta Allergol. 1, 40, 1948.
- 3754 BRIGGS, M.H. The chemistry of animal venoms. Sci. Prog. 48, 456, 1960.
- 3755 BURNETT, J.W. and CARGO, D.G. Cutaneous irritation induced by crab larvae. J. Am. Acad. Derm. 1, 42, 1979.
- 3756 CALMETTE, A. Les Venins. Les Animaux Venimeux et la Sérothérapie Antivenimeuse. Masson & Cie: Paris, 396p., 1907.
- 3757 CALMETTE, A. Venoms. Venomous Animals and Antivenomous Serum-Therapeutics. John Bale, Sons & Danielsson: London, 403p., 1908.
- 3758 CAMERON, A.M. Toxicity phenomena in coral reef waters. Proc. 2nd Intern. Coral Reef Symp. 1, 513, 1974.
- 3759 CANTACUZÈNE, J. Observations relatives à certaines propriétés du sang de *Carcinus moenas* parasite par la sacculine. C.R. Soc. Biol. 74, 109, 1913.
- 3760 CARLÉ, J.S. En undersøgelse af indholdsstoffer i Bryozoa. Univ. Copenhagen, Dept. Gen. and Org. Chem.: Copenhagen, 95p., 1977.
- 3761 CARLÉ, J.S. Marin naturstoffkemi, biologisk aktive forbindelser. Thesis, Univ. Copenhagen, 1980.
- 3762 CARLÉ, J.S. and CHRISTOPHERSEN, C. Dogger bank itch. 2. An allergic contact dermatitis. Bull. Soc. chimie Belg. 89, 1087, 1980.
- 3763 CARLÉ, J.S. and CHRISTOPHERSEN, C. Dogger bank itch. The allergen is (2-hydroxyethyl) dimethylsulfoxonium ion. J. Am. chem. Soc. 102, 5107, 1980.
- 3764 CHENG, M.T. and RINEHART, K.L., JR. Polyandrocarpines: antimicrobial and cytotoxic agents from a marine tunicate (*Polyandrocarpa* sp.) from the Gulf of California. J. Am. chem. Soc. 100, 7409, 1978.
- 3765 CHEVALLIER, A. and DUCHESNE, E.A. Mémoire sur les empoisonnements par les huîtres, les moules, les crabes, et par certains poisons de mer et de rivière. Ann. Hyg. pub. 46, 108, 1851.
- 3766 CLARK, W.G. and LIPTON, J.M. Complimentary lowering of the behavioral and physiological thermoregulatory set points by tetrodotoxin and saxitoxin in the cat. J. Physiol. 238, 181, 1974.
- 3767 CLELAND, J.B. Injuries and diseases in Australia attributable to

- animals (other than insects). Med. J. Aust. (2), 157, 1932; see also Rept. Dir. Gen. Pub. Hlth., N.S.W., (2), 1916.
- 3768 CLELAND, J.B. and SOUTHCOTT, R.V. Injuries to Man from Marine Invertebrates in the Australian Region. Commonwealth of Australia: Canberra, 1965.
- 3769 COOPER, M.J. Ciguatera and other marine poisonings in the Gilbert Islands. Pac. Sci. 18, 411, 1964.
- 3770 COURVILLE, D.A., HALSTEAD, B.W. and HASSEL, D.W. Marine biotoxins: isolation and properties. Chem. Rev. 58, 235, 1958.
- 3771 DOIG, M.T., III, MARTIN, D.F. and PADILLA, G.M. Marine bioactive agents: chemical and cellular correlates. In, Marine Pharmacognosy. Action of Marine Biotoxins at the Cellular Level. Martin, D.F. and Padilla, G.M. (eds.), Academic: N.Y., p. 1, 1973.
- 3772 DOMONKOS, A.N. Andrew's Diseases of the Skin, Clinical Dermatology. W.B. Saunders: Philadelphia, p. 95, 1971.
- 3773 DUBOS, M., SUSPERREGUI, A., DROUET, J. and NIAUSSAT, P.-M. Étude expérimentale du pouvoir sensibilisant d'Alcyonidium gelatinosum (L.) (Bryozoaire marin). I. Réactions d'hypersensibilité cutanée. Arch. Maladies profess. 41, 9, 1980.
- 3774 DUBOS, M., NGUYEN, T.L., LAM-OUREUX, P. et al. Alcyonidium gelatinosum (L.) (Bryozoaire) et réactions cutanées d'hypersensibilité, résultats préliminaires d'une étude expérimentale. Bull. Soc. Path. exot. 70, 82, 1977.
- 3775 DYMSZA, H., SHIMIZU, Y., RUSSELL, F.E. and GRAHAM, H.D. Poisonous marine animals. In, The Safety of Foods. 2nd edit., Graham, H.D. (ed.), Avi Publ.: Westport, Conn., p. 625, 1980.
- 3776 EHRHARDT, J.P. and NIAUSSAT, P. De l'éventuelle toxicité due à la capode brachyoure Carpilius convexus Förskal. Étude d'exemplaires provenant de l'atoli de Clipperton. Cah. Pacifique 18, 105, 1970.
- 3777 EVANS, M.H. Saxitoxin and related poisons: their actions on man and other animals. In, Proceedings of the First International Conference on Toxic Dinoflagellate Blooms. LoCicero, V.R. (ed.), Mass. Sci. Tech. Found.: Wakefield, Mass., 1975.
- 3778 FAUST, E.S. Die Tierischen Gifte. Friedrich Vieweg & Sohn: Braunschweig, p. 223, 1906.
- 3779 FAUVEL, P., AVEL, M., HARANT, H., GRASSÉ, P. and DAWYDOFF, C. Embranchement des annélides. In, Traité de Zoologie. Grassé, P. (ed.), Masson & Cie: Paris, vol. 5, part 1, 1959.
- 3780 FISHER, A.A. Atlas of Aquatic Dermatology. Grune & Stratton: N.Y., 112p., 1978.
- 3781 FISHER, A.A. and ORRIS, W.L. Aquatic contact dermatitis. Cutis 12, 687, 1973.
- 3782 FISHER, W.K. The sipunculid worms of California and Baja California. U.S. natn. Mus. 102, 371, 1952.
- 3783 FOXALL, T.L., SHOPTHUGH, N.H., IKAWA, M. and SASNER, J.J., JR. Secondary intoxication with PSP in Cancer irroratus. In, Toxic Dinoflagellate Blooms. (Proc. 2nd Intern. Conf.), Taylor, D.L. and Seliger, H.H. (eds.), Elsevier/North-Holland: N.Y., vol. 1, p. 413, 1979.

- 3784 FRASER, J.H. and LYELL, A. Dogger bank itch. Lancet (1), 61, 1963.
- 3785 GARNET, J.R. Venomous Australian Animals Dangerous to Man. Commonwealth Serum Laboratories: Parkville, Victoria, 86p., 1968.
- 3786 GARTH, J.S. Demanita toxica, a new species of poisonous crab from the Philippines. Micronesia 7, 179, 1971.
- 3787 GARTH, J.S. Demanita alcalai, a second new species of poisonous crab from the Philippines (Crustacea, Decapoda, Brachyura). Philipp. J. Sci. 104, 1, 1975.
- 3788 GRIFFIN, D.H. and CHAET, A.B. Toxic substances in blood of scalded crayfish (Orconectes virilis and Procambarus clarkii). Proc. Soc. exp. Biol. 110, 495, 1962.
- 3789 GUINOT, D. Les crabs comestibles de l'Indo-Pacifique. Ed. Fond. Singer-Polignac: Paris, 145p., 1967.
- 3790 GULDAGER, A. Doggerbankeekæm, forsøg på profylaktisk behandling med corticosteroider. Ugeskr. Læg. 121, 1567, 1959.
- 3791 HALSTEAD, B.W. Animal phyla known to contain poisonous marine animals. In, Venoms. Buckley, E.E. and Porges, N. (eds.), A.A.A.S.: Washington, p. 9, 1956.
- 3792 HALSTEAD, B.W. Dangerous Marine Animals. Cornell Maritime Press: Cambridge, Md., 1959 (revised 1973; in Russian, 1970).
- 3793 HALSTEAD, B.W. Poisonous and Venomous Marine Animals of the World, Vol. I, Invertebrates. U.S. Govt. Print. Off.: Washington, 1965.
- 3794 HALSTEAD, B.W. Venomous marine animals of Brazil. Mem. Inst. Butantan Simp. Internac. 33, 1, 1966 (publ. 1968).
- 3795 HALSTEAD, B.W. Marine biological hazards. J. Ocean Technol. 2, 46, 1968.
- 3796 HALSTEAD, B.W. Powerful poisons in marine organisms—a factor in using foods from the sea. Maritime (5-6), 10, 1968.
- 3797 HALSTEAD, B.W. Hazardous marine life. In, Handbook of Ocean and Underwater Engineering. Myers, J.J., Holm, C.H. and McAllister, R.F. (eds.), McGraw Hill: N.Y., 1969.
- 3798 HALSTEAD, B.W. Marine biotoxins: a new source of medicinals. Lloydia 32, 484, 1970.
- 3799 HALSTEAD, B.W. Venomous echinoderms and annelids: starfishes, sea urchins, sea cucumbers, and segmented worms. In, Venomous Animals and Their Venoms. Bucherl, W. and Buckley, E.E. (eds.), Academic: N.Y., p. 419, 1971.
- 3800 HALSTEAD, B.W. Poisonous animals and plants. In, Encyclopedia Britannica. 15th edit., p. 606, 1974.
- 3801 HALSTEAD, B.W. Hazardous marine life. In, Diving Medicine. Strauss, R. (ed.), Grune & Stratton: N.Y., p. 227, 1975.
- 3802 HALSTEAD, B.W. Poisonous and venomous marine animals. In, The Ocean World of Jacques Cousteau. Dunbury: N.Y., 1975.
- 3803 HALSTEAD, B.W. Poisonous and Venomous Marine Animals of the World. Rev. edit., Darwin Press: Princeton, N.J., 238p., 1978.

- 3804 HALSTEAD, B.W. Dangerous marine animals. In, The Prevention of Keeper's Accidents by Animals. Jpn. Zoo. Aquar. Assoc., vol. 3, p. 67, 1978.
- 3805 HALSTEAD, B.W. and COX K.W. A fatal case of poisoning by the red-spotted crab Carpilus maculatus (Linnaeus) in Mauritius. Proc. Roy. Soc. Arts Sci. Mauritius 4, 27, 1973.
- 3806 HALSTEAD, B.W. and RUSSELL, F.E. Toxic marine organisms. In, Handbook of Biological Data. Spector, W.S. (ed.), F.A.S.E.B.: Washington, p. 424, 1956.
- 3807 HALSTEAD, B.W., CARSCALLEN, L.J. and RUSSELL F.E. Animal toxins. Part III. Marine organisms. In, Biology Data Book. Altman, P. and Dittmer, D.S. (eds.), F.A.S.E.B.: Washington, p. 336, 1964.
- 3808 HARTMAN, O. Literature of the Polychaetous Annelids, Vol. I, Bibliography. Edwards Brothers: Ann Arbor, Mich., 290p., 1951.
- 3809 HASHIMOTO, Y. Marine Toxins. Univ. Tokyo Press: Tokyo, 1977.
- 3810 HASHIMOTO, Y. [Marine Toxins and Other Bioactive Marine Metabolites]. Jpn. Sci. Soc. Press: Tokyo, 1979.
- 3811 HASHIMOTO, Y. and KAMIYA H. Food chain hypotheses on the origin of marine toxins. Bull. Jpn. Soc. scient. Fish. 36, 423, 1970.
- 3812 HASHIMOTO, Y. and KONOSU, S. Venoms of Crustacea and Merostomata. In, Handbook of Experimental Pharmacology. Born, G.V.R., Eichler, O., Farah, A., Herken, H. and Welch, A.D. (eds.), Springer-Verlag: Berlin, vol. 48, p. 13, 1978.
- 3813 HASHIMOTO, Y. and OKAICHI, T. Some chemical properties of nereistoxin. Ann. N.Y. Acad. Sci. 90, 667, 1960.
- 3814 HASHIMOTO, Y. and TSUTSUMI, J. Isolation of a photodynamic agent from the liver of abalone, Haliotis discus hannai. Bull. Jpn. Soc. scient. Fish. 27, 839, 1961.
- 3815 HASHIMOTO, Y., KAMIYA, H. and SHIBOTA, M. [Investigations on toxic marine animals in the Ryukyu and Amami Islands, IX. A survey on the poisonings caused by marine snails and fishes in Marcus Island.] Tech. Rept., Lab. Mar. Biochem., Fac. Agric., Univ. Tokyo, 7p., 1968.
- 3816 HASHIMOTO, Y., NAITO, K. and TSUTSUMI, J. Photosensitization of animals by the viscera of abalones, Haliotis spp. Bull. Jpn. Soc. scient. Fish. 26, 1216, 1961.
- 3817 HASHIMOTO, T., SAKAI, M. and KONISHI, K. A new insecticide developed from nereistoxin. In, Food-Drugs from the Sea Proceedings. Worthen, L.R. (ed.), Washington, p. 129, 1972.
- 3818 HASHIMOTO, Y., KONOSU, S., YAMASUMOTO, T., and KAMIYA, H. [Investigation on toxic marine animals in the Ryukyu and Amami Islands, VIII. A survey on coconut crab poisoning.] Tech. Rept., Lab. Mar. Biochem., Fac. Agric., Univ. Tokyo, 7p., 1967.
- 3819 HASHIMOTO, Y., KONOSU, S., INOUE, A., NOGUCHI, T. and MITSURA, N. [Investigations on poisonous marine animals in the Ryukyu and Amami Islands, VII.] Tech. Rept., Lab. Mar. Biochem., Fac. Agric., Univ. Tokyo, 1967.
- 3820 HASHIMOTO, Y., KONOSU, S., INOUE, A., SAISHO, T. and

- MIYAKE, S. Screening of toxic crabs in the Ryukyu and Amami Islands. Bull. Jpn. Soc. scient. Fish. 35, 83, 1969.
- 3821 HASHIMOTO, Y., KONOSU, S., YASUMOTO, T., INOUE, A. and NOGUCHI, T. Investigation on poisonous marine animals in the Ryukyu and Amami Islands, II. Tech. Rept., Lab. Mar. Biochem., Fac. Agric., Univ. Tokyo, 1967.
- 3822 HASHIMOTO, Y., KONOSU, S., YASUMOTO, T., INOUE, A. and NOGUCHI, T. Occurrence of toxic crabs in Ryukyu and Amami Islands. Toxicon 5, 85, 1967.
- 3823 HATTORI, Y. and AKIBA, T. Studies on the toxic substance in Asari (Venerupis semidecussata). (2) Method of testing for shellfish toxicity. J. Pharm. Soc. Jpn. 72, 572, 1952.
- 3824 HAYASHI, E. and YAMADA, S. Pharmacological surugatoxin, the toxic principle from Japanese Ivory mollusc (Babylonia japonica). Br. J. Pharmac. 33, 207, 1975.
- 3825 HELM, M.M., HEPPER, B.T., SPENCER, B.E. and WALNE, P.R. Lugworm mortalities and a bloom of Gymnodinium aureolum Hulburt in the eastern Irish Sea, Autumn 1971. J. mar. Biol. Ass. U.K. 54, 857, 1974.
- 3826 HIGA, T. and SCHEUER, P.J. Thelepin, a new metabolite from the marine annelid Thelepus setosus. J. Am. chem. Soc. 96, 2246, 1974.
- 3827 HIGA, T. and SCHEUER, P.J. Constituents of the marine annelid Thelepus setosus. Tetrahedron 31, 2379, 1975.
- 3828 HOLTHUIS, L.B. Are there poisonous crabs? Crustaceana 15, 215, 1968.
- 3829 HYMAN, L.H. The Invertebrates: Platyhelminthes and Rhyncho-coela; the Acoelomate Ailateria. Vol. 2. McGraw Hill: N.Y., 550p., 1951.
- 3830 INOUE, A., NOGUCHI, T., KONOSU, S. and HASHIMOTO, Y. A new toxic crab, Altegeratis floridus. Toxicon 6, 119, 1968.
- 3831 JOENSEN, H.D. Arbejdsmiljoskader inden for fiskerierhvervet. Ugeskr. Laeg. 141, 3396, 1979.
- 3832 JONES, H.M. Lobsters and gastroenteritis. Some experiments on cooking and sterilization. Lancet (2), 738, 1939.
- 3833 KAISER, E. and MICHL, H. Die Biochemie der tierischen Gifte. F. Deuticke: Wien, p. 16, 1958.
- 3834 KEM, W.R. A study of the occurrence of anabaseine in Paranemertes and other nemertines. Toxicon 9, 23, 1971.
- 3835 KEM, W.R. Biochemistry of nemertine toxins. In, Marine Pharmacognosy. Action of Marine Biotoxins at the Cellular Level. Martin, D.F. and Padilla, G.M. (eds.), Academic: N.Y., p. 37, 1973.
- 3836 KEM, W.R. Purification and characterization of a new family of polypeptide neurotoxins from the heteronemertine Cerebratulus lacteus (Leidy). J. biol. Chem. 251, 4184, 1976.
- 3837 KEM, W.R. and BLUMENTHAL, K.M. Polypeptide cytotoxins and neurotoxins isolated from the mucus secretions of the heteronemertine Cerebratulus lacteus (Leidy). In, Toxins. Animal, Plant and

- Microbial. Rosenberg, P. (ed.), Pergamon: Oxford, p. 509, 1978.
- 3838 KEM, W.R. and BLUMENTHAL, K.M. Purification and characterization of the cytolytic *Cerebratulus* A toxins. J. biol. Chem. **253**, 5752, 1978.
- 3839 KEM, W.R. and BLUMENTHAL, K.M. Secondary structure of a nemertine neurotoxin. Toxicon **17** (Suppl. 1), 87, 1979 (Abst.).
- 3840 KEM, W.R., ABBOTT, B.C. and COATES, R.M. Isolation and structure of a hoplonemertine toxin. Toxicon **9**, 15, 1971.
- 3841 KEM, W.R., BLUMENTHAL, K.M. and DOYLE, J.W. Cytotoxins of some marine invertebrates. In, Natural Toxins. Eaker, D. and Wadström, T. (eds.), Pergamon: Oxford, p. 157, 1980.
- 3842 KEM, W.R., COATES, R.M. and ABBOTT, B.C. Isolation and identification of a nemertine neurotoxin. Fed. Proc. **28** (2), 610, 1969.
- 3843 KEM, W.R., SCOTT, K.N. and DUNCAN, J.H. Hoplonemertine worms—a new source of pyridine neurotoxins. Experientia **32**, 684, 1976.
- 3844 KING, H. Amphiporine, an active base from the marine worm *Amphiporus lactifloreus*. J. chem. Soc. **2**, 1365, 1939.
- 3845 KLAWE, W.L. and DICKIE, L.M. Biology of the bloodworm, *Glycera dibranchiata* Ehlers, and its relation to the bloodworm fishery of the Maritime Provinces. Bull. Fish. Res. Bd. Can. (115), 37p., 1957.
- 3846 KLUGE, G.A. Keys on the Fauna of the U.S.S.R., No. 76, Bryozoa of the Northern Seas of the U.S.S.R. Akad. Nauk: Moscow; Amerind Publ. Co. Pvt. Ltd.: New Delhi (Engl. transl.), 1975.
- 3847 KONISHI, K. Studies on organic insecticides. Part XII. Synthesis of nereistoxin and related compounds. V. Agric. biol. Chem. **34**, 935, 1970.
- 3848 KONOSU, S. [Toxic crabs in the Ryukyu and Amami Islands.] Kagaku to Seibutsu **6**, 413, 1968.
- 3849 KONOSU, S. and HASHIMOTO, Y. Occurrence of toxic crabs in the Ryukyu and Amami Islands and the similarity of the crab toxin to saxitoxin. S. Pac. Comm., Seminar on Ichthysarcotoxism, Rangiro, French Polynesia, 1968.
- 3850 KONOSU, S., NOGUCHI, T. and HASHIMOTO, Y. Toxicity of a xanthid crab, *Zosimus aeneus*, and several other species in the Pacific. Bull. Jpn. Soc. scient. Fish. **36**, 715, 1970.
- 3851 KONOSU, S., INOUE, A., NOGUCHI, T. and HASHIMOTO, Y. Comparison of crab toxin with saxitoxin and tetrodotoxin. Toxicon **6**, 113, 1968.
- 3852 KONOSU, S., INOUE, A., NOGUCHI, T. and HASHIMOTO, Y. A further examination on the toxicity of three species of xanthid crab. Bull. Jpn. Soc. scient. Fish. **35**, 88, 1969.
- 3853 KOSSEL, A. Protamine und Histone. F. Deuticke: Wien, 1929.
- 3854 KURLAND, L.T., FARO, S.N. and SIEDLER, H. Minamata disease. The outbreak of a neurologic disorder in Minamata, Japan, and its relationship to the ingestion of seafood contaminated by mercuric compounds. World Neurol. **1**, 370, 1960.

- 3855 KURZE, G. and REGEL, F. Giftige Seetiere in der Südsee. Mitt. Geogr. Ges. Jena 7, 120, 1889.
- 3856 LA FAVRE, H.B. Report of a small outbreak of food poisoning on board the U.S.S. "Patoka" attributed to crawfish. U.S. Nav. med. Bull. 28, 511, 1939.
- 3857 LANG, A. Die polycladiden (seeplanarien) des Golfes von Neapel und der angrenzenden meeresabschnitte; eine monographie. Zool. Sta. Neapel, Wilhelm Engelmann: Leipzig, 686p., 1884.
- 3858 LE MARE, D.W. Poisonous Malayan fish. Med. J. Malaya 7, 1, 1952.
- 3859 LÉVY, R. Sur la toxicité des tissus de la sacculine (Saculina carcini Thomp.) vis-à-vis du crabe (Carcinus moenas Penn.) et sur la recherche de réactions d'immunité chez ce dernier. Bull. Soc. zool. Fr. 48, 291, 1923.
- 3860 LEWINSOHN, C. [Injuries caused by marine animals.] Dapim Refuim 21, 704, 1962.
- 3861 LINAWEAVER, P.G. Toxic marine life. Milit. Med. 132, 437, 1967.
- 3862 MAASS, T.A. Gift-tieren. In, Tabulae Biologicae. Junk, W. (ed.), N.V. Van de Garde Drukkerij: Zaltbommel, Holland, vol. XIII, 1937.
- 3863 MABBET, H. Death of a skindiver. Aust. Skin Div. Spear-fish. Dig. p. 13, Dec. 1954.
- 3864 MANARANCHE, R., THIEFFRY, M. and ISRAEL, M. Effect of the venom Glycera convoluta on the spontaneous quantal release of transmitter. J. Cell Biol. 85, 446, 1980.
- 3865 MC NEILL, F. Palolo: food worm of the Pacific. Aust. Mus. Mag. 11, 173, 1954.
- 3866 MEBS, D. Chemistry of animal venoms, poisons and toxins. Experientia 29, 1328, 1973.
- 3867 MICHEL, C. Mâchoires et glandes annexes de Glycera convoluta (Keferstein) Annelide, Polychete, Glyceridae. Cah. Biol. mar. 8, 367, 1966.
- 3868 MICHEL, C. and KEIL, B. Biologically active proteins in the venomous glands of the polychaetous annelid, Glycera convoluta Keferstein. Comp. Biochem. Physiol. 50B, 29, 1975.
- 3869 MICHEL, C. and ROBIN, Y. Première données biochimiques sur les glandes à venin de Glycera convoluta Keferstein (Annelide Polychete). C.R. Seanc. Soc. Biol. 166, 853, 1972.
- 3870 MICHEL, C., FONZE-VIGNAUX, M.-T. and VOSS-FOUCART, M.F. Données nouvelles sur la morphologie, l'histochemie et la composition chimique des mâchoires de Glycera convoluta Keferstein (Annelide Polychete). Bull. Biol. Fr. Belg. 107, 301, 1973.
- 3871 MINTON, S.A., JR. Spines and stings and sea snakes. Consultant 17, 45, 1977.
- 3872 MORI, Y., ANRAKU, M., YAGI, K. et al. On the venomous crustacea and fish from Amami-Oshima and Okinawa Islands-I. Med. J. Kagoshima Univ. 19, 729, 1968.
- 3873 MOTE, G.E., HALSTEAD, B.W. and HASHIMOTO, Y. Occurrence of toxic crabs in the Palau Islands. Clin. Toxicol. 3, 597, 1971.
- 3874 MOULTON, J.M. On collection of alpheid shrimp from Queensland. N. Queensland Nat. 34, (143), 7, 1967.

- 3875 NAKAZIMA, M. On the differentiation of the crenated-folds in the midgut gland of Eulamelli branchia. VII. Crenated-fold in Donax semigranulosus. Jpn. J. Malacol. 23 (4), 1965.
- 3876 NARAHASHI, T. Mode of action of nereistoxin on excitable tissues. In, Marine Pharmacognosy. Action of Marine Biotoxins at the Cellular Level. Martin, J.F. and Padilla, G.M. (eds.), Academic: N.Y., p. 107, 1973.
- 3877 NEWHOUSE, M.L. Dogger bank itch: survey of trawlermen. Br. med. J. 1, 1142, 1966.
- 3878 NIELLY, M. Animaux et vegetaux nuisibles. In, Elements de Pathologie Exotique. Nielly, M. (ed.), Delahaye & Lecrosnier: Paris, p. 712, 1881.
- 3879 NILSSON, A. and FÄNGE, R. The digestive fluid of Priapulus caudatus (Lam.). Comp. Biochem. Physiol. 22, 927, 1967.
- 3880 NITTA, S. Über Nereistoxin, einen giftigen Bestandteil von Lumbriconereis heteropoda Marenz (Eunicidae). J. pharm. Soc. Jpn. 54, 648, 1934.
- 3881 NITTA, S. Pharmakologische Untersuchung des Nereistoxins, das vom Verf. im Körper des Lumbriconereis heteropoda (Isome) isoliert wurde. Tokyo J. med. Sci. 55, 285, 1941.
- 3882 NOGUCHI, T., KONOSU, S. and HASHIMOTO, Y. Identity of the crab toxin with saxitoxin. Toxicol. 7, 325, 1969.
- 3883 OKAICHI, T. and HASHIMOTO, Y. The structure of nereistoxin. Agric. Biol. Chem. 26, 224, 1962.
- 3884 OKAICHI, T. and HASHIMOTO, Y. Physiological activities of nereistoxin. Bull. Jpn. Soc. Fish. 28, 920, 1962.
- 3885 OSBURN, R.C. Marine bryozoa. In, Treatise on Marine Ecology and Paleocology, Vol. I, Ecology. Hedgpeth, J.W. (ed.), Memoir 67, Geol. Soc. Amer.: N.Y., 1957.
- 3886 PARADICE, W.E.J. Injuries and lesions caused by the bites of animals and insects. Med. J. Aust. (2), 650, 1924.
- 3887 PAWLOWSKY, E.N. Gifftiere und Ihre Giftigkeit. Gustav Fischer: Jena, p. 145, 1927.
- 3888 PENNER, L.R. Bristleworm stinging in a natural environment. Univ. Conn. Occ. Pap. 1, 275, 1970.
- 3889 PHILLIPS, C. and BRADY, W.H. Sea Pests: Poisonous or Harmful Sea Life of Florida and the West Indies. Univ. Miami Press: Miami, 78p., 1953.
- 3890 PHISALIX, M. Animaux Venimeux et Venins. 2 vols., Masson et Cie: Paris, 1922.
- 3891 POPE, E.C. Some sea animals that sting and bite. Aust. Mus. Mag. 9, 164, 1947.
- 3892 POPE, E.C. Some noxious marine invertebrates from Australian seas. Proc. First Intern. Convention Life Saving Techniques. Part III, Sci. Sect., Bull. Post Grad. Comm. Med., Univ. Sydney, p. 91, 1963.
- 3893 POSNER, P. and KEM, W.R. Cardiac effects of toxin A-III from the heteronemertine worm Cerebratulus lacteus (Leidy). Toxicon 16, 343, 1978.

- 3894 PRENANT, M. Recherches sur les rhabdites des turbellaries. Arch. Zool. exp. gen. 58, 219, 1919.
- 3895 REISINGER, E. and KELBETZ, S. Feinbau und Entladungsmechanismus der Rhabditen. Z. wiss. Mikrosk. 65, 472, 1964.
- 3896 RICH, A.C. Crayfish poisoning: a series of cases. Liverpool Med. Chir. J. 2, 385, 1882.
- 3897 ROMANO, S. Animali velenosi della fauna italiana. Natura (Milano) 31, 137, 1940.
- 3898 RUGGIERI, G.D. Drugs from the sea. Marine organisms with novel chemical constituents are excellent sources of new drugs. Science 194, 491, 1976.
- 3899 RUGGIERI, G.D. and NIGRELLI, R.F. Effects of Bonellin, a water-soluble extract from the proboscis of *Bonellia viridis*, on sea urchin development. Am. Zool. 2, 552, 1962.
- 3900 RUSSELL, F.E. Marine toxins and venomous and poisonous marine animals. In, Advances in Marine Biology. Russell, F.S. (ed.), Academic: London, p. 255, 1965.
- 3901 RUSSELL, F.E. Venomous and poisonous marine animals and their toxins. First Inter-American Naval Res. Conf., San Juan, Puerto Rico, 37p., 1965.
- 3902 RUSSELL, F.E. Pharmacology of animal venoms. Clin. Pharmacol. Therap. 8, 849, 1967.
- 3903 RUSSELL, F.E. Venomous bites and stings. In, The Merck Manual. 13th edit., Berkow, R. (ed.), Merck, Sharp & Dohme: Rathway, N.J., p. 1982, 1977.
- 3904 RUSSELL, F.E. Hazardous marine life. Part 1: Venomous marine animals. Hyperb. Underseas Med. 1, 1, 1978.
- 3905 RUSSELL, F.E. The marine organism sting mystery. (Questions and Answers) J.A.M.A. 243, 1573, 1980.
- 3906 RUSSELL, F.E. and CARLSON, R.W. Marine organisms. In, Biology Data Book. Altman, P.L. and Dittmer, D.S. (eds.), F.A.S.E.B.: Washington, p. 726, 1973.
- 3907 SAISHO, T. and USHIO, Y. A study on the distribution and ecology of toxic crabs in the Ryukyu and Amami Islands. Mem. Fac. Fish. Kagoshima Univ. 18, 47, 1969.
- 3908 SCHEUER, P.J. Chemistry of Marine Natural Products. Academic: N.Y., 1973.
- 3909 SCHEUER, P.J., editor. Marine Natural Products: Chemical and Biological Perspectives. 4 vols., Academic: N.Y., 1978-1981.
- 3910 SCHILLING, R.S.F. and NEWHOUSE, M.L. Dogger bank itch. (Abridged) Proc. Roy. Soc. Med. 59, 1119, 1966.
- 3911 SCHULTZE, M.S. Beiträge zur Naturgeschichte der Turbellarien. C.A. Koch's: Griefswald, 78p., 1851.
- 3912 SCHWIMMER, D. and SCHWIMMER, M. Algae and medicine. In, Algae and Man. Jackson, D. (ed.), Plenum: N.Y., p. 368, 1964.
- 3913 SCHWIMMER, D. and SCHWIMMER, M. Medical aspects of phycology. In, Algae, Man and the Environment. Syracuse Univ. Press: Syracuse, N.Y., p. 279, 1968.

- 3914 SEVILLE, R.H. Dogger bank itch. Report of a case. Br. J. Derm. 69, 92, 1957.
- 3915 SMEDLEY, N. Malaysian king-crabs. Bull. Raffles Mus. 2, 73, 1929.
- 3916 SMEDLEY, N. Notes on king crabs (Xiphosura). Bull. Raffles Mus. 5, 71, 1931.
- 3917 SMITH, H.M. A poisonous horseshoe crab. J. Siam Soc. nat. Hist. 9, 143, 1933.
- 3918 SOEGIRI, A. Een geval van mimi-vergiftiging. Geneesk. Tijdschr. Ned.-Ind. 76, 880, 1936.
- 3919 SOMMER, H. The occurrence of the paralytic shell-fish poison in the common sand-crab. Science 76, 574, 1932.
- 3920 SOMMER, H.W. and MEYER, K.F. Paralytic shellfish poisoning. Arch. Pathol. 24, 560, 1937.
- 3921 SOUTHCOTT, R.V. The bristleworm. Med. J. Aust. (1), 192, 1966.
- 3922 SOUTHCOTT, R.V. The neurologic effects of noxious marine creatures. In, Contemporary Neurology Series. Hornabrook, R.W. (ed.), F.A. Davis: Philadelphia, Vol. 12, p. 165, 1975.
- 3923 SOUTHCOTT, R.V. Marine envenomation and intoxication in man. In, Neurotoxins. Fundamental and Clinical Advances. Chubb, I.W. and Geffen, L.D. (eds.), Adelaide Univ. Union Press: Adelaide, Aust., p. 75, 1978.
- 3924 SOUTHCOTT, R.V. Marine toxins. In, Handbook of Clinical Neurology. Vinken, P.J. and Bruyn, G.W. (eds.), Elsevier/North-Holland: Amsterdam, vol. 37, part 2, p. 27, 1979.
- 3925 SPIRA, M.E., KLEIN, M., HOCHNER, G., YAROM, Y. and CASTEL, M. Ultrastructure changes accompanying the disturbances of neuromuscular transmission caused by Pardachirus toxin. Neuroscience 1, 117, 1976.
- 3926 STCHERBACK, A.E. Poisoning with lobsters. Acute polyneuritic ataxia, combined with acro-neuritis, partial disturbance of the sensation of movements. Vrach. Gas., St. Petersburg. 14, 285, 1907.
- 3927 STRYDON, D.J. Phylogenetic relationships of Proteroglyphae toxins. Toxicon 10, 39, 1972.
- 3928 TALIZIN, F.F. [Poisonous Animals of the Land and Sea.] Moscow, p. 9, 1970.
- 3929 TASCHENBERG, O. Die Giftigen Tiere. Ferdinand Enke: Stuttgart, 1909.
- 3930 TEH, Y.F. and GARDINER, J.E. Toxin from the coral reef crab, Lophozozymus pictor. Pharmacol. Res. Commun. 2, 251, 1970.
- 3931 TEH, Y.F. and GARDINER, J.E. Partial purification of Lophozozymus pictor toxin. Toxicon 12, 603, 1974.
- 3932 TRISHNANANDA, M., TUCHINDA, C., YIPINSEI, T. and OONSOMBAT, P. Poisoning following the ingestion of the horseshoe crab (Carcinoscorpius rotundicauda): report of four cases in Thailand. J. trop. Med. Hyg. 69, 194, 1966.
- 3933 TSUTSUMI, J. and HASHIMOTO, Y. Isolation of pyropheophorbide a as a photodynamic pigment from the liver of abalone, Haliotis discus hannai. Agric. biol. Chem. 28, 467, 1964.

- 3934 TURK, J.L., PARKER, D. and RUDNER, E.J. Preliminary results on the purification of the chemical sensitizing agent in Alcyonidium gelatinosum. Proc. Roy. Soc. Med. 59, 1122, 1966.
- 3935 TWEEDIE, M.W. Poisonous Animals of Malaya. Malaya Publ. House: Singapore, 90p., 1941.
- 3936 UMEDA, T. Influence of animal toxins on the ciliary movement (tissue culture experiment of ciliated epithelium). Acta Derm. Kyoto 11, 101, 1923.
- 3937 UWATOKO SETOGUCHI, Y., OBO, F. and HASHIMURA, S. Purification and chemical properties of the toxin of crab. Acta Med. Univ. Kagoshima 11, 35, 1969.
- 3938 VANGGAARD, L. and NIELSEN, S. Arbejdsmiljøet: dansk fiskeri. Ugeskr. laeg. 139, 413, 1977.
- 3939 VAN THOAI, N. and ROCHE, J. Phosphagens of marine animals. Ann. N.Y. Acad. Sci. 90, 923, 1960.
- 3940 VAUGHAN, V.C. Food poisoning. Sci. Month. 71 (3), 155, 1950.
- 3941 WATERMAN, T.H. Xiphosura from Xuong-ha. Am. Sci. 41, 292, 1953.
- 3942 WHITLEY, G.P. Dangerous Australian fishes. Proc. First Intern. Convention Life Saving Techniques, Part III, Sci. Sect., Bull. Post Grad. Comm. Med., Univ. Sydney, p. 131, 1963.
- 3943 WILHELMI, J. Fauna und flora des Golfes von Neapel und der angrenzenden meeresabschnitte. Herausgegeben von der zoologischen station zu Neapel. Monographie 32, Tricladen. R. Friedlander & Sohn: Berlin, 405p., 1909.
- 3944 YALDWYN, J. Blistering from bristleworm. Aust. nat. Hist. 15, 86, 1965.
- 3945 YASUMOTO, T. and ENDO, M. Toxicity study on a marine snail, Turbo argyrostoma-I. Presence of two sulfur-containing amines in the acetone soluble fraction. Bull. Jpn. Soc. scient. Fish. 40, 841, 1973.
- 3946 YONABARU, S. Investigation on the coconut crab poisonings. Lab. Mar. Biochem., Fac. Agric., Univ. Tokyo, Rept. (16), 1974.
- 3947 ZLOTKIN, E. Chemistry of animal venoms. Experientia 29, 1453, 1973.

CHAPTER IX

POISONOUS FISHES

This chapter presents the citations relating to the poisonousness of fishes. Poisonous fish have been defined as those whose tissues, either in part or in their entirety, are toxic, and which do not possess a specific mechanism, such as a spine or tooth, for delivering their toxin.

Insofar as is known, most ichthyotoxic fishes produce their toxins as by-products or products of metabolism, not necessarily associated with either their offensive or defensive statures. The poisonous fishes have been further divided into ichthyosarcotoxic, ichthyootoxic, ichthyohemotoxic, and crinotoxic. Ichthyosarcotoxism is generally identified by the kind of fish involved: elasmobranch, chimaeroid, clupeoid, ciguatera, tetraodon, scombroid, or hallucinatory fish poisoning. Those fishes which elaborate a toxin through their skin, as a defensive mechanism, have been called crinotoxic. Citations to the venomous fishes, as defined in Chapter X, are found in that chapter.

- 3948 ABE, T. Taxonomic studies on the puffers (Tetraodontidae, Teleostei) from Japan and adjacent regions. V. Synopsis of the puffers from Japan and adjacent regions. Bull. biogeogr. Soc. Jpn. 14, 89, 1949.
- 3949 ABE, U. and KATNUMA, M. [Food poisoning-like disease caused by the liver of Stereolepis ishinagi.] J. Jpn. vet. med. Assoc. 10, 125, 1957; see also Food Sanit. Res. 7, 19, 1957.
- 3950 ABITA, J.-P., CHICHEPORTICHE, R., SCHEWEITZ, H. and LAZDUNSKI, M. Effects of neurotoxins (veratridine, sea anemone toxin, tetrodotoxin) on transmitter accumulation and release by nerve terminals in vitro. Biochemistry 16, 1838, 1977.
- 3951 ABITA, J.-P., CHICHEPORTICHE, R., FOSSET, M., ROMÉY, G. and LAZDUNSKI, M. Effects of veratridine, scorpion toxin and tetrodotoxin on the uptake and release of tritiated gamma amino butyric acid from rat brain synaptosomes. In, Proceedings of the 6th international Congress of Pharmacology. Pergamon: Oxford, 632p., 1977.
- 3952 ACEVES, J. and ERLIJ, D. Effects of norepinephrine on tissues of the frog heart atrium poisoned by tetrodotoxin. Nature 215, 1178, 1967.
- 3953 ADACHI, R. and FUKUYO, Y. The thecal structure of a marine toxic dinoflagellate Gambierdiscus toxicus gen. et sp. nov. collected in a ciguatera endemic area. Bull. Jpn. Soc. scient. Fish. 45, 67, 1979.
- 3954 ADAM, H. Die Haut der Kopflösen, Rundmäuler, Fische und Lurche. Studium gen. 17, 323, 1964.
- 3955 ADAMS, H.J., BLAIR, M.R., JR. and TAKMAN, B.H. Local anesthetic activity and acute toxicity of tetrodotoxin and tetrodotoxin-local anesthetic combinations. Fed. Proc. 33, 509, 1974.
- 3956 ADAMS, H.J., BLAIR, M.R., JR. and TAKMAN, B.H. The local anesthetic activity of tetrodotoxin alone and in combination with vasoconstrictors and local anesthetics. Anesth. Analg. 55, 568, 1976.
- 3957 AGNEW, W.S., LEVINSON, S.R., BRABSON, J.S. and RAFTERY, M.A. Purification of tetrodotoxin binding component associated with the voltage sensitive sodium channel from Electrophorus electricus electroplax membranes. Proc. natn. Acad. Sci. 75, 2606, 1978.
- 3958 AGNEW, W.S., MOORE, A.C., LEVINSON, S.R., and RAFTERY, M.A. Identification of a large molecular weight peptide associated with a tetrodotoxin binding protein from the electroplax of Electrophorus electricus. Biochem. Biophys. res. Commun. 92, 860, 1980.
- 3959 AIDA, K., HIBIYA, T., OSHIMA, Y., HASHIMOTO, Y. and RANDALL, J.E. Structure of the skin of the soapfish Pogonoperca punctata. Bull. Jpn. Soc. scient. Fish. 39, 1351, 1973.
- 3960 AKASHI, T. [Experiences with fugu poisoning.] Iji Shibum 27, 19, 1880.
- 3961 ALBUQUERQUE, E.X., BROOKES, N., ONUR, R. and WARNICK, J.E. Kinetics of interaction of batrachotoxin and tetrodotoxin on rat diaphragm muscle. Mol. Pharmacol. 12, 82, 1976.

- 3962 ALEXANDER. Ueber Fischvergiftung mit Vorstellung von Kranken. Jahresb. Schles. Ges. Vaterl. Kult. 65, 42, 1887.
- 3963 ALLEN, G.R. and STARCK, W.A., II. Notes on the ecology, zoogeography and coloration of the gobiesocid clingfishes, Lepadichthys caritus (Briggs) and Diademichthys lineatus (Savage). Proc. Linn. Soc. N.S.W. 98, 95, 1973.
- 3964 ALMERS, W. and LEVINSON, S.R. Tetrodotoxin binding to normal and depolarized frog muscle and the conductance of a single sodium channel. J. Physiol. 247, 483, 1975.
- 3965 AL-NAGDY, S.A., ABDEL-HAMID, M.E. and MANSOUR, M.A. Some disturbances in carbohydrate and fat metabolism induced by fish tetrodotoxification in rats. Zool. Soc. Egypt Bull. (28), 93, 1978.
- 3966 AMARAL, A. DO. Poisoning by fish and other animals. In, Clinical Tropical Medicine. Gradwohl, R.B.H., (ed.), C.V. Mosby: St. Louis, p. 1265, 1951.
- 3967 ANDERSON, W. An account of some poisonous fish in the South Seas. Phil. Trans. Roy. Soc. London 66, 544, 1776.
- 3968 ANDREWS, O.W. Hand-book of Public Health Laboratory Work and Food Inspection. Balliere, Tindall, Cox: London, p. 45, 1901.
- 3969 ANGUITA I STÜWEN, V. La siguatera. Unión Méd. Sant. de Chile 4, 345, 1897.
- 3970 ANON. Coroner's inquest on man poisoned by toadfish at Parramatta. Sydney Gaz., April 21, 1821.
- 3971 ANON. Coroner's inquest on three victims of toadfish poisoning. Colonial Times, Hobart, March 29, April 5, 1831.
- 3972 ANON. Toadfish poisoning at New Town, Tasmania. Sydney Herald 1 (1), 1831.
- 3973 ANON. Siguatera, or fish poison disease. Br. Foreign Med.-Chir. Rev. 30, 535, 1862.
- 3974 ANON. Die giftigen Fische. Aus. der Natur, Leipzig 19 (new ser. 7) (6), 85, (7), 100, 1862.
- 3975 ANON. Editorial (on Tetraodon hamiltoni). New S. Wales med. Gaz. 1, 306, 1871.
- 3976 ANON. Poisonous fish. Sydney Morning Herald, July 7, 1874.
- 3977 ANON. Poisonous fish. Lancet (2), 939, 1876.
- 3978 ANON. Poisonous fishes. J.A.M.A. 1, 621, 1883.
- 3979 ANON. [Poisoning by fish in Russia.] J. St. Petersburg, July 4, 1893.
- 3980 ANON. Poisonous fish. Med. Rec., N.Y. 49, 876, 1896.
- 3981 ANON. The "Palu" or "oil fish" of Funafuti. Nature 60, 536, 1899.
- 3982 ANON. Poisonous fish. Fish. Gaz., London 96, 164, 1928.
- 3983 ANON. Medical and sanitary data on Trinidad. U.S. War Dept., 7p., 1941.
- 3984 ANON. Medical and sanitary data on Kwangchowan. U.S. War Dept., p. 1, 1943.
- 3985 ANON. Medical and sanitary data on the New Hebrides. U.S. War Dept., p. 5, 1943.

- 3986 ANON. Epidemiology of diseases of military importance in the Netherlands Indies. U.S. Nav. med. Bull. 133, 142, 1943.
- 3987 ANON. Poisonous and dangerous fishes of the tropical Pacific. Arctic, Desert, Tropic Info. Ctr., Elgin Field, Florida, Info. Bull. A, 11, 1, 1943.
- 3988 ANON. Medical and sanitary data on Samoa. U.S. War Dept., p. 9, 1943.
- 3989 ANON. Poisonous and harmful fishes. Bull. Coun. Scient. Indust. Res., Commonw. Australia, Melbourne, (59), 1943; see also J.A.M.A. 124, 330, 1944.
- 3990 ANON. Medical and sanitary data on the Phoenix Island. U.S. War Dept., p. 3, 1943.
- 3991 ANON. Medical and sanitary data on the Mariana Islands. U.S. War Dept., TB Med. (20), 4, 1944.
- 3992 ANON. Medical and sanitary data on the Palau Islands. U.S. War Dept., TB Med. (41), 4, 1944.
- 3993 ANON. Medical and sanitary data on the Caroline Islands. U.S. War Dept., TB Med. (50), 4, 1944.
- 3994 ANON. Medical and sanitary data on Guam. U.S. War Dept., TB Med. (57), 4, 1944.
- 3995 ANON. Medical and sanitary data on the Philippine Islands. U.S. War Dept., TB Med. (68), 25, 58, 1944.
- 3996 ANON. Medical and sanitary data on the Marshall Islands. U.S. War Dept., TB Med. (111), 4, 1944.
- 3997 ANON. Medical and sanitary data on Hainan. U.S. War Dept., TB Med. (118), 6, 1944.
- 3998 ANON. Poisonous fish of the South Pacific. J.A.M.A. 124, 330, 1944.
- 3999 ANON. Survival on land and sea. Off. Nav. Intell., U.S. Navy, 48-52, 1944.
- 4000 ANON. Medical and sanitary data on Pratas Island. U.S. War Dept., TB Med. (146), 2, 1945.
- 4001 ANON. Medical and sanitary data on the Gilbert and Ellice Islands, Ocean Island, and Nauru. U.S. War Dept., TB Med. (189), 8, 1945.
- 4002 ANON. Poisoning by snakes, plants and fish. U.S.A.A.F. Tact. Ctr. Med. Ser. 1, 1, 1945.
- 4003 ANON. Medical and sanitary data on Italy. U.S. War Dept., TB Med. (178), 15, 1945.
- 4004 ANON. Eel's blood is poisonous. Ciba Symposia 9, 759, 1947.
- 4005 ANON. [Regulations for handling fugu as approved by the Tokyo-to legislature.] Tokyo-to Regulation (43), 1949.
- 4006 ANON. [Examination questions for fugu cooks in Tokyo-to.] Tokyo-to Food Products Assoc., Exam. (1), 12p., 1949.
- 4007 ANON. [Detailed rules for carrying out the regulations for handling fugu.] Tokyo-to Regulation (95), May 31, 1949.
- 4008 ANON. Two deaths, eight poisoned from eating a toado. W. Australian, Perth, Aug. 11, 1950.
- 4009 ANON. Boy and cat die from eating toado. Daily Telegraph, Sydney, Dec. 9, 11, 12, 1950.
- 4010 ANON. Take care, they're poisonous. The Sun, Sydney, Mar. 6, 1951.

- 4011 ANON. Woman dies, family ill, after eating toad fish. Sydney Morning Herald, Mar. 6, 1951.
- 4012 ANON. Seventeen poisoned by fish dish. Manila Daily Bulletin, Feb. 1, 1951.
- 4013 ANON. [Fish and hygiene.] Pub. Hlth. Serv.: Tokyo, 71p., 1952.
- 4014 ANON. [Textbook for Fugu Cooks.] Pub. Hyg. Div., Hyg. Sect.: Tokyo, p. 30, 90, 1953.
- 4015 ANON. Five Fijians poisoned by fish. Pacif. Isl. Month. 26, 142, 1956.
- 4016 ANON. Fugu: the poisonous pleasure. The Sciences 4, 11, 1964.
- 4017 ANON. Poisonous fishes of the Trust Territory of the Pacific Islands. Saipan, Off. High Commiss., 65p., 1961.
- 4018 ANON. Tetrodotoxin has hemilactal structure. Chem. eng. News 42, 42, 1964.
- 4019 ANON. Poison fish projects reports. S. Pac. Bull., p. 51, Apr., 1964.
- 4020 ANON. Aislao el veneno de la ciguatera. Mar. Pesca 3, 21, 1965.
- 4021 ANON. Don't eat porcupine fish—you may get ichthyosarcotoxism. Star, Johannesburg, June 10, 1966.
- 4022 ANON. Protogan is antidote for ciguatera poison. M.D. med. News-mag. 10, 117, 1966.
- 4023 ANON. Puffer-fish poisoning. Br. med. J. (3), 174, 1968.
- 4024 ANON. When fish are foul. Emerg. Med. 3, 88, 1971.
- 4025 ANON. Water, water everywhere. Emerg. Med. 5, 108, 1973.
- 4026 ANON. Amberjack toxemia. M.D. 18, 59, 1974.
- 4027 ANON. [In 1973 there were 102 cases of tetrodotoxin poisonings reported of which 27 died.] Shincho Weekly, Oct., p. 141, 1974.
- 4028 ANON. Ciguatera poisoning. Morb. Mort. Week. Rept. 24, 445, 1975.
- 4029 ANREP, V.K. [Poisoning by fish and poisonous fish] Vrach 213, 1885.
- 4030 ANREP, V.K. [Fish Poison.] B.V. Chavkins: Charkoff, 20p., 1885.
- 4031 ANREP, V.K. Sur le poisson toxique et le poison du poisson. Arch. Med. nov. 45, 235, 1886.
- 4032 ANREP, V.K. [Poisoning by fish and fish poison.] Sborn rabot. proizved. V. lab., Charkoff I, 87, 1886.
- 4033 AOMURA, T., YEN, T.J. and OIKAWA, K. Einfluss des Tetrodotoxins auf die Epinephrinabgabe beim Hunde. Tohoku J. exp. Med. 15, 36, 1930.
- 4034 ARAKAWA, H. [Studies on globefish poison.] J. chem. Soc. Jpn. 77, 1295, 1956.
- 4035 ARCHER, S.G. and CHARLES, W.F. Large doses of atropine. J.A.M.A. 158, 1181, 1955.
- 4036 ARCISZ, W. Ciguatera: Tropical Fish Poisoning. Spec. Sci. Rept., U.S. Fish Wildl. Serv., Fish. (27), 23p., 1950.
- 4037 ARNOLD, S.H. and BROWN, W.D. Histamine toxicity from fish products. Adv. food Res. 24, 113, 1978.
- 4038 ARRAS, D. Essai sur les accidents causés par les poissons. Thesis, Paris, 1877.

- 4039 ARUSTANOFF, M. Ueber die Natur des Fischgiftes. Centralbl. Bakteriol. Parasitenk., Jena 10, 113, 1891.
- 4040 ARUSTANOFF, M. [On the nature of fish poison.] Vrach 36, 1055, 1898.
- 4041 ASANO, M. [Toxic lipids in the roe of blenny, Stichaeus grigorjewi Herzenstein.] Tohoku J. agric. Res. 15, 113, 1964.
- 4042 ASANO, M. Ciguatera: tropical and subtropical marine fish poisonings. Bull. Jpn. Soc. scient. Fish. 31, 558, 1965.
- 4043 ASANO, M. [Advances in the research of toxins from aquatic animals.] Kagaku no Ryoiki 25, 214, 1971.
- 4044 ASANO, M. and ITOH, M. [Toxicity of a lipoprotein and lipids from the roe of a blenny, Dinogunellus grigorjewi Herzenstein.] Tohoku J. agric. Res. 13, 151, 1962.
- 4045 ASANO, M. and ITOH, M. [Lipoproteins (lipostichaerins) in the roe of blenny, Stichaeus grigorjewi Herzenstein.] Tohoku J. agric. Res. 16, 299, 1966.
- 4046 ASANO, M., TAKAYANAGI, F. and FURUHARA, Y. Studies on fish and shellfish toxins. II. Callistin poisoning in the vicinity of Morimachi, Hokkaido. J. Hokkaido Fish. Sci. Inst. 7, 26, 1950.
- 4047 ATWELL, R.B. and STUTCHBURY, G.B. Toadfish poisoning (tetrodotoxin) in the cat. Aust. Vet. J. 54, 308, 1978.
- 4048 AUDEBERT, C. and LAMOUREAUX, P. Eczéma professionnel du marin pêcheur par contact de bryozoaires en baie de Seine (premiers cas français 1975-1977). Ann. Derm. Venerol., Paris 105, 187, 1978.
- 4049 AUTENRIETH, H.F. Ueber das Gift der Fische. C.F. Oslander: Tübingen, 1833.
- 4050 AZHGIKHIN, I.S., GANDEL, V.G., MEKHTIKHANOV, S.D., SEREBRIANNIKOV, N.V. and AKSENOVA, N.A. Obtaining tetrodotoxin and holothurin from Soviet raw materials. Farmatsiia 4, 27, 1979.
- 4051 BACKHOUSE, J. A Narrative of a Visit to the Australian Colonies. Hamilton Adams: London, p. 186, 1843.
- 4052 BAER, M., BEST, P.M. and REUTER, H. Voltage-dependent action of tetrodotoxin in mammalian cardiac muscle. Nature 263, 344, 1976.
- 4053 BAGNIS, R. Rapport sur la mission d'étude de l'ichtyotoxisme à Hawaii. Papeete, Serv. de Santé Poly. Fr., 37p., 1965.
- 4054 BAGNIS, R. Quelques considérations sur les aspects cliniques de l'ichtyotoxisme en Polynésie française: à propos de 350 observations. Méd. trop. 27, 555, 1967; see also Papeete, Inst. Recher. Méd. Poly. Fr., Rapp. Tech. (2), 1966.
- 4055 BAGNIS, R. Note concernant l'emploi des oximes dans le traitement de la ciguatera. Papeete, Inst. Recher. Méd. Poly. Fr., Rapp. Tech. (2), 1966.
- 4056 BAGNIS, R. La ciguatera en Polynésie française en 1966. Papeete, Inst. Recher. Méd. Poly. Fr., Rapp. Tech. (3), 1966.
- 4057 BAGNIS, R. Contribution à l'étude de l'ichtyotoxisme en Polynésie

- 4039 ARUSTANOFF, M. Ueber die Natur des Fischgiftes. Centralbl. Bakteriol. Parasitenk., Jena 10, 113, 1891.
- 4040 ARUSTANOFF, M. [On the nature of fish poison.] Vrach 36, 1055, 1898.
- 4041 ASANO, M. [Toxic lipids in the roe of blenny, Stichaeus grigorjewi Herzenstein.] Tohoku J. agric. Res. 15, 113, 1964.
- 4042 ASANO, M. Ciguatera: tropical and subtropical marine fish poisonings. Bull. Jpn. Soc. scient. Fish. 31, 558, 1965.
- 4043 ASANO, M. [Advances in the research of toxins from aquatic animals.] Kagaku no Ryoiki 25, 214, 1971.
- 4044 ASANO, M. and ITOH, M. [Toxicity of a lipoprotein and lipids from the roe of a blenny, Dinogunellus grigorjewi Herzenstein.] Tohoku J. agric. Res. 13, 151, 1962.
- 4045 ASANO, M. and ITOH, M. [Lipoproteins (lipostichaeins) in the roe of blenny, Stichaeus grigorjewi Herzenstein.] Tohoku J. agric. Res. 16, 299, 1966.
- 4046 ASANO, M., TAKAYANAGI, F. and FURUHARA, Y. Studies on fish and shellfish toxins. II. Callistin poisoning in the vicinity of Morimachi, Hokkaido. J. Hokkaido Fish. Sci. Inst. 7, 26, 1950.
- 4047 ATWELL, R.B. and STUTCHBURY, G.B. Tcadfish poisoning (tetrodotoxin) in the cat. Aust. Vet. J. 54, 308, 1978.
- 4048 AUDEBERT, C. and LAMOUREAUX, P. Eczéma professionnel du marin pêcheur par contact de bryozoaires en baie de Seine (premiers cas français 1975-1977). Ann. Derm. Venerol., Paris 105, 187, 1978.
- 4049 AUTENRIETH, H.F. Ueber das Gift der Fische. C.F. Oslander: Tübingen, 1833.
- 4050 AZHGIKHIN, I.S., GANDEL, V.G., MEKHTIKHANOV, S.D., SERERIANNIKOV, N.V. and AKSENOVA, N.A. Obtaining tetrodotoxin and holothurin from Soviet raw materials. Farmatsia 4, 27, 1979.
- 4051 BACKHOUSE, J. A Narrative of a Visit to the Australian Colonies. Hamilton Adams: London, p. 186, 1843.
- 4052 BAER, M., BEST, P.M. and REUTER, H. Voltage-dependent action of tetrodotoxin in mammalian cardiac muscle. Nature 263, 344, 1976.
- 4053 BAGNIS, R. Rapport sur la mission d'étude de l'ichtyotoxisme à Hawaii. Papeete, Serv. de Santé Poly. Fr., 37p., 1965.
- 4054 BAGNIS, R. Quelques considérations sur les aspects cliniques de l'ichtyotoxisme en Polynésie française: à propos de 350 observations. Méd. trop. 27, 555, 1967; see also Papeete, Inst. Recher. Méd. Poly. Fr., Rapp. Tech. (2), 1966.
- 4055 BAGNIS, R. Note concernant l'emploi des oximes dans le traitement de la ciguatera. Papeete, Inst. Recher. Méd. Poly. Fr., Rapp. Tech. (2), 1966.
- 4056 BAGNIS, R. La ciguatera en Polynésie française en 1966. Papeete, Inst. Recher. Méd. Poly. Fr., Rapp. Tech. (3), 1966.
- 4057 BAGNIS, R. Contribution à l'étude de l'ichtyotoxisme en Polynésie

- 4078 BAGNIS, R. Données recentes concernant la biogénèse de la ciguatera dans le Pacifique. Caraibes Méd. 2, 27, 1979.
- 4079 BAGNIS, R. Ciguatera fish poisoning in New Caledonia: clinical and epidemiological aspects. Rev. Epidemiol. Sante publique 27, 17, 1979.
- 4080 BAGNIS, R. and DENIZOT, M. La ciguatera aux Iles Mariqueses: aspects humains et biomarines. Cah. Pacif. 21, 293, 1978; see also Bull. Wld. Hlth. Org. (1), 67, 1973.
- 4081 BAGNIS, R. and FEVAI, G. La ciguatera féline expérimentale à Tahiti. Rev. Méd. vétér. 122, 629, 1971.
- 4082 BAGNIS, R. and FEVAI, G. Étude comparative préliminaire de la toxicité de divers poissons ciguatérigènes à l'état brut et des extraits liposolubles correspondants. Rev. intern. Océanogr. méd. 28, (18-19), 5, 1970.
- 4083 BAGNIS, R. and KAEUFFER, H. Perspectives immunologiques en matière de ciguatera. Méd. trop. 34, 25, 1974.
- 4084 BAGNIS, R. and LETOURNEUX, M. Une ciguatoxine commune à divers poissons des milieux coralliens. Bull. Soc. Pathol. exot. 67, 209, 1974.
- 4085 BAGNIS, R. and VERNOUX, J.P. Ciguatoxine et poissons de récifs comestibles. Bull. Soc. Path. exot. 68, 320, 1974.
- 4086 BAGNIS, R. and VERNOUX, J.P. Une conséquence indirecte de la pollution marine en milieu insulaire tropical: la ciguatera. Méd. trop. 36, 280, 1976.
- 4087 BAGNIS, R., BENNETT, J. and NANAI, F. Environnement et ciguatera. Bull. Sepanrit (8), 2, 1975.
- 4088 BAGNIS, R., CHANTEAU, S. and YASUMOTO, T. Signification des diverses toxines présentes sur les substrats coralliens morts dans le déterminisme ciguatérique. Bull. Soc. Path. exot. 70, 320, 1977.
- 4089 BAGNIS, R., CHANTEAU, S. and YASUMOTO, T. Mise en évidence d'un Dinoflagellé responsable en puissance de la ciguatera. Rev. intern. Océanogr. méd. 45, 29, 1977.
- 4090 BAGNIS, R., CHANTEAU, S. and YASUMOTO, T. Découverte d'un agent étiologique vraisemblable de la ciguatera. C.R. Acad. Sci. Ser. D 285, 105, 1977.
- 4091 BAGNIS, R., KUBERSKI, T. and LAUGIER, S. Clinical observations on 3,009 cases of ciguatera (fish poisoning) in the South Pacific. Am. J. trop. Med. Hyg. 28, 1067, 1979.
- 4092 BAGNIS, R., LOUSSAN, E. and THEVENIN, S. Les intoxications par poissons perroquets aux Iles Gambier. Méd. trop. 34, 523, 1974.
- 4093 BAGNIS, R., ROUANET, M. and RENAMBOT, J. À propos de trois cas de ciguatera (dont un mortel) dans les Iles Tuamotu. Méd. trop. 30, 489, 1970.
- 4094 BAGNIS, R., CHANTEAU, S., YASUMOTO, T. and INOUE, A. Nouvelle explication physiopathologique de la ciguatera. Méd. trop. 38, 323, 1978.
- 4095 BAGNIS, R., DENIZOT, M., DROLLET, J.H. and LAIGRET, J. Biotoxines ciguatérigènes en Polynésie française. Rev. intern. Océanogr. méd. (35-36), 213, 1974.

- 4096 BAGNIS, R., YASUMOTO, T., CHANTEAU, S. and INOUE, A. A new pathophysiological explanation of ciguatera. Med. Trop. (Mars) 38, 323, 1978.
- 4097 BAGNIS, R., HURTEL, J.-M., FUKUYO, Y., INOUE, A. and YASUMOTO, T. Quelques aspects morphologiques et biologiques du dinoflagellé responsable probable de la ciguatera. C.R. Acad. Sci., Ser. D. 289, 639, 1979.
- 4098 BAGNIS, R., BERGER, R., FUSE-TANI, N. et al. La ciguatera: un puzzle biologique. Méd. Ocean. (7), 44, 1977.
- 4099 BAGNIS, R., BERGLUND, F., ELIAS, P.S. et al. Problems of toxicants in marine food products I. Marine biotoxins. Bull. Wld. Hlth. Org. 42, 69, 1970.
- 4100 BAGNIS, R., BRONSTEIN, J.A., JOUFFE, G. et al. Complication neurologique de la ciguatera. Bull. Soc. Path. exot. 70, 89, 1977.
- 4101 BAGNIS, R., CHANTEAU, S., CHUNGUE, E. et al. Origins of ciguatera fish poisoning: a new dinoflagellate, Gambierdiscus toxicus Adachi and Fukuyo, definitively involved as a causal agent. Toxicon 18, 199, 1980.
- 4102 BAGNIS, R., HURTEL, J.M., CHAN-TEAU, S. et al. Le Dinoflagellé Gambierdiscus toxicus Adachi et Fukuyo, agent causal probable de la ciguatera. C.R. Acad. Sci., Ser. D 289, 671, 1979.
- 4103 BANNER, A.H. Fish poisoning in the tropical Pacific. S. Pac. Bull. 11, 18, 1961.
- 4104 BANNER, A.H. Ciguatera in the Pacific. (Ciguatera Fish Poi-soning: A Symposium). Hawaii med. J. 24, 353, 1965.
- 4105 BANNER, A.H. Poisonous marine animals, a synopsis. J. foren. Sci. 12, 180, 1967.
- 4106 BANNER, A.H. Marine toxins from the Pacific, I. Advances in the investigation of fish toxins. In, Animal Toxins. Russell, F.E. and Saunders, P.R. (eds.), Pergamon: Oxford, p. 157, 1967; see also Toxicon 4, 292, 1967.
- 4107 BANNER, A.H. Ciguatera fish poisoning. II. General patterns of development in the Pacific. Bishop Mus. Occ. Pap. 23, 371, 1968.
- 4108 BANNER, A.H. Hallucinatory mullet poisoning: a case from Oahu. Hawaii med. J. 32, 330, 1973.
- 4109 BANNER, A.H. The biological origin and transmission of ciguatoxin. In, Bioactive Compounds from the Sea. Humm, H.J. and Lane, C.E. (eds.), Marcel Dekker: N.Y., p. 15, 1974.
- 4110 BANNER, A.H. Ciguatera: a disease from coral reef fish. In, Biology and Geology of Coral Reefs. Jones, O.A. and Endean, R. (eds.), Vol. 3, p. 177, Academic: N.Y., 1976.
- 4111 BANNER, A.H. and BOROUGHS, H. Observations on toxins of poison-ous fishes. Proc. Soc. exp. Biol. Med. 98, 776, 1958.
- 4112 BANNER, A.H. and HELFRICH, P. Hallucinatory mullet poisoning. J. trop. Med. Hyg. 63, 86, 1960.
- 4113 BANNER, A.H. and HELFRICH, P. The distribution of ciguatera in the tropical Pacific. Hawaii Mar. Lab. Tech. Rept. (3), 48p., 1964.
- 4114 BANNER, A.H., HELFRICH, P. and PIYAKARNCHANA, T. Reten-tion of ciguatera toxin by the red

- snapper, Lutjanus bohar. Copeia (2), 297, 1966.
- 4115 BANNER, A.H., HELFRICH, P., SCHEUER, P.J. and YOSHIDA, T. Research on ciguatera in the tropical Pacific. Proc. Gulf Carib. Fish. Inst., 16th Ann. Sess., p. 87, 1963.
- 4116 BANNER, A.H., SHAW, S.W., ALENDER, C.B. and HELFRICH, P. Fish intoxication. Notes on ciguatera, its mode of action and a suggested therapy. S. Pacif. Comm. Tech. Pap. (141), Noumea, New Caledonia, Sept., 1963.
- 4117 BANNER, A.H., SASAKI, S., HELFRICH, P., ALENDER, C.B. and SCHEUER, P.J. Bioassay of ciguatera toxin. Nature 189, 229, 1961.
- 4118 BANNER, A.H., SCHEUER, P.J., SASAKI, S., HELFRICH, P. and ALENDER, C.B. Observations on ciguatera-type toxin in fish. Ann. N.Y. Acad. Sci. 90, 770, 1960.
- 4119 BARDIER, M.E. Action cardiaque du sérum d'anguille. C.R. Soc. Biol. 5, 548, 1898.
- 4120 BARNOLA, F.V., VILLEGAS, R. and CAMEJO, G. Tetrodotoxin receptors in plasma membranes isolated from lobster nerve fibers. Biochim. biophys. Acta 298, 84, 1973.
- 4121 BARKIN, R.M. Ciguatera poisoning: a common source outbreak. South. med. J. 67, 13, 1974.
- 4122 BARTSCH, A.F. and MC FARREN, E.F. Fish poisoning: a problem in food toxication. Pac. Sci. 16, 42, 1962.
- 4123 BARTSCH, A.F., DRACHMAN, R.H. and MC FARREN, E.F. Report of a survey of the fish poisoning problem in the Marshall Islands. Div. Sanit. Eng. Commun. Dis. Cent., U.S. Dept. Interior, 117p., 1959.
- 4124 BASLOW, M.H. Marine toxins. Ann. Rev. Pharmacol. 11, 447, 1971.
- 4125 BATES, H.A. and RAPOPORT, H. A chemical assay for saxitoxin, the paralytic shellfish poison. J. agric. food Chem. 23, 237, 1975.
- 4126 BAUGHMAN, J.L. The marine fisheries of the Mayas are given in Diego de Landa's "Relacion de las cosas de Yucatan" with notes on the probable identification of fishes. Tex. J. Sci. 4, 432, 1952.
- 4127 BAUMBACH, N. and GRUENER, R. Chronic stimulation of a BGT-poisoned muscle removes tetrodotoxin-resistant action potentials. Fed. Proc. 35, 378, 1976.
- 4128 BAYLET, R., BECCARIA, C., NIAUSSAT, P.M., BOYER, F. and GUILLAUD, M. Food poisoning by ciguatoxin in France. Pathol. Biol. (Paris) 26, 95, 1978.
- 4129 BEAGLEHOLE, J.C. The Journals of Captain Cook, Vol. 2, Voyages of the Resolution and Adventure 1772-1775. Cambridge Univ. Press: London, p. 534, 1961.
- 4130 BECKE, L. Wild Life in Southern Seas. London, 1897.
- 4131 BECKE, L. Poisonous Fish of the Pacific Islands. Yorke the Adventurer. J.B. Lippincott: London, 1901.
- 4132 BÉGON, L. Note sur un cas d'empoisonnement par poissons toxiques. Bull. Soc. Océan. (12), 217, 1963.
- 4133 BEHRE, E. Vergiftungen durch Fischereierzeugnisse. Z. Lebensmitteluntersuch. 89, 299, 1949.

- 4134 BELIN, J. Note sur un cas d'intoxication par des oeufs de harengs. France Méd. 33, 1458, 1886; see also Bull. Soc. clin. Méd. Ment., Paris 10, 124, 1887.
- 4135 BELLECCI, D.A. and POLARA, G. Sulla tossicità del siero di sangue di alcune specie di Murenoidi. Arch. Farmacog. 6, 598, 1907.
- 4136 BELMONTE, C. and STENSAAS, L.J. Repetitive spikes in photo-receptor axons of the scorpion eye. Invertebrate eye structure and tetrodotoxin. J. gen. Physiol. 66, 649, 1975.
- 4137 BELOTTE, J. Les poissons "empoisonnés" du lagon Tahitien. Méd. trop., Marseilles 15, 232, 1955.
- 4138 BÉNECH, E. Toxalbumine retirée de la chair d'anguille de rivière. C.R. Acad. Sci. 128, 833, 1899.
- 4139 BENJAMIN, A.J. and QUASTEL, J.H. Locations of amino acids in brain slices from the rat. Tetrodotoxin-sensitive release of amino acids. Biochem. J. 128, 631, 1972.
- 4140 BENNETT, G. On the "toad fish" (Tetraodon hamiltoni) of New South Wales. New S. Wales med. Gaz. 1, 176, 1871.
- 4141 BENOLKEN, R.M. and RUSSELL, C.J. Tetrodotoxin blocks a graded sensory response in the eye of Limulus. Science 155, 1576, 1967.
- 4142 BENSON, J. Tetraodon (blowfish) poisoning. A report of two fatalities. J. foren. Sci. 1, 119, 1956.
- 4143 BENZER, T.I. and RAFTERY, M.A. Partial characterization of tetrodotoxin binding component from nerve membrane. Proc. natn. Acad. Sci. 69, 3634, 1972.
- 4144 BERG, L.S. System der rezenten und fossilen Fischartigen und Fische. VEB Deutscher Verlag der Wissenschaften: Berlin, 310p., 1958.
- 4145 BERGER, J.A. and BERGER, L.R. Studies to develop a colorimetric Elisa test to assay ciguatoxin in fish tissue. Rev. intern. Oceanogr. Med. (53-54), 23, 1979.
- 4146 BERITASHVILI, D.R., KHARITON, V.Y. and CHAILAKHYAN, L.M. Absence of tetrodotoxin effect on the sodium permeability during a continuous depolarization. Tsitologiya 18, 74, 1976.
- 4147 BERITASHVILI, D.R., MARAKHOVA, I.I., KHARITON, V., YU, L. and CHAILAKHYAN, L.M. The effect of tetrodotoxin on the sodium permeability in the resting membrane. Tsitologiya 16, 717, 1974.
- 4148 BERLIN, R. Haff disease in Sweden. Acta med. Scand. 129, 560, 1947.
- 4149 BERNSTEIN, M.E. Pharmacologic effects of tetrodotoxin: cardiovascular and antiarrhythmic activities. Toxicon 7, 287, 1969.
- 4150 BERRIDGE, M.J. and RUSSELL, F.E. Effect of some venoms on salivary gland activity. Toxicon 18, 716, 1980.
- 4151 BERRY, F.H. and VOGEL, L.E. Filefishes (Monacanthidae) of the western North Atlantic. U.S. Fish. Wildl. Serv., Fish. Bull. 181, 61, 1961.
- 4152 BERRY, F.H. and BALDWIN, W.J. Triggerfishes (Balistidae) of the eastern Pacific. Proc. Calif. Acad. Sci. (4th ser.) 34, 429, 1966.
- 4153 BERRY, P.Y. and HASSAN, A.A.B. Comparative lethality of tissue extracts from the Malaysian

- puffer fishes, Lagocephalus lunaris, L. l. spadiceus and Arothron stellatus. Toxicon 11, 249, 1973.
- 4154 BØJE, O. Toxin in the flesh of the Greenland shark. Meddel. om Grønland 125, 1, 1939.
- 4155 BIBER, B. and FARA, J. Intestinal motility increased by tetrodotoxin, lidocaine, and procaine. Experientia 29, 551, 1973.
- 4156 BICKMORE, J.T. Poisonous fish. Fisherman, Aug. 13, 1954.
- 4157 BICKMORE, J.T. All fish aren't poisonous. Fisherman, Nov. 1, 1954.
- 4158 BIOT, J. and NIAUSSAT, P. À propos de quelques cas récents d'ichtyo-sarcotisme, type "ciguatera." Bull. Mens. Soc. Méd. Mil. Franc. (1), 52, 1968.
- 4159 BISBINI, P., POSSATI, F. and MARI-NELLI, M. [Two episodes of food poisoning caused by oil-preserved fish fillets.] Nuovi Ann. Ig. Microbiol. 11, 377, 1960.
- 4160 BLANCHARD, M.R. Les poissons des eaux douces de la France. Paris, 1866.
- 4161 BLANCHARD, M.R. Expériences et observations sur la Marmotte en hibernation. II. Action du sérum d'anguille. C.R. Soc. Biol. 55, 736, 1903.
- 4162 BLANCHARD, R. Traité de zoologie médicale. J.B. Baillière & Fils: Paris, Vol. 2, p. 638, 1890.
- 4163 BLANKENSHIP, J.E. Action of tetrodotoxin on spinal motoneurons of the cat. J. Neurophysiol. 31, 186, 1968.
- 4164 BLANKENSHIP, J.E. Tetrodotoxin: from poison to powerful tool. Perspect. Biol. Med. 19, 509, 1976.
- 4165 BLIN, M. Apropos of a frequent poisoning by fish in New Caledonia. Bull. Soc. Path. exot. 54, 216, 1961.
- 4166 BLOEDEL, J.R., GAGE, P.W., LLINAS, R. and QUASTEL, D.M.J. Transmission across the squid giant synapse in the presence of tetrodotoxin. J. Physiol. 188, 52, 1967.
- 4167 BLONZ, E.R. and OLCOTT, H.S. Daphnia magna as a bioassay system for histamine in tuna extracts. Nihon Suisan-Gakkai Shi 44, 517, 1978.
- 4168 BLONZ, E.R. and OLCOTT, H.S. Effect of histamine, putrescine and of canned spoiled tuna on growth in young Japanese quail. J. food Sci. 43, 1390, 1978.
- 4169 BLYTH, A.W. Poisons. Their Effects and Detection. W. Wood: N.Y., Vol. 2, 668p., 1895.
- 4170 BOESOIRIE, C. Vischvergiftiging door een "ikan nogi-nogi." Geneesk. Tijdschr. Ned.-Indie 80, 1338, 1940.
- 4171 BONNE, C. Vergiftige visschen. Chron. Nat. 103, 43, 1947.
- 4172 BONNEVIE, P. Fishermen's "Dogger bank itch" an allergic contact-eczema due to the coralline Alcyonidium hirsutum, the "sea chervil." Acta Alerg. 1, 40, 1948.
- 4173 BORDNER, J., THIESSEN, W.E., BATES, H.A. and RAPOPORT, H. The structure of a crystalline derivative of saxitoxin. J. Am. chem. Soc. 97, 6003, 1975.
- 4174 BORISON, H.L., MC CARTHY, L.E., RADHAKRISHNAN, N. and CLARK, W.G. Vomiting,

hypothermia, and respiratory paralysis due to tetrodotoxin (puffer fish poison) in the cat. Toxicol. appl. Pharmacol. 5, 350, 1963.

4175 BOTTARD, A. Les Poissons Venimeux: Contribution à l'Hygiène Navale. Octave Dion: Paris, 198p., 1889.

4176 BOUCHER-FIRLY, S. Sur quelques constituants chimiques du sang de Congre et de Murène. Bull. Inst. Océan. Monaco (651), 1, 1934.

4177 BOUDER, H. and CAVALLO, A. Essai de Traitement de la Ciguatera par la Vitamine B₆. Assoc. Méd. Nouv. Calédonie, 11p., 1962.

4178 BOUDER, H. and CAVALLO, A. Les intoxications par les poissons vénéneux. Rev. Corps de Santé Armées, Paris 4, 63, 1963.

4179 BOUDER, H., CAVALLO, A. and BOUDER, M.J. Poissons venen-eux et ichtyosarcotisme. Bull. Inst. Océan. Monaco (1240), 6, 1962.

4180 BOULENGER, G.A. Fishes. Cambridge Nat. Hist., Macmillan: London, Vol. 7, p. 589, 705, 724, 726, 1904.

4181 BOYARSKY, L.L. and RAYNER, M.D. The effect of ciguatera toxin on Aplysia neurons. Proc. Soc. exp. Biol. Med. 134, 332, 1970.

4182 BOYER, J., DEPIERRE, F., TISSIER, M. and JACOB, J. Intoxications histaminiques collectives par le thon. Presse méd. 64, 1003, 1956.

4183 BOYLAN, D.B. and SCHEUER, P.J. Pahutoxin: a fish poison. Science 155, 52, 1967.

4184 BRENCHELEY, J.L. Jottings During the Cruise of H.M.S. "Curacoa"

Among the South Sea Islands in 1865. Longmans, Grace & Co.: London, p. 60, 135, 200, 213-14, 231, 1873.

4185 BRIGGS, J.C. A monograph of cling-fishes (Order Xenopterygii). Stanford Ichthyol. Bull. 6, 1, 1955.

4186 BROCK, V.E. Possible production of substances poisonous to fishes by the box fish, Ostracion lentiginosus Schneider. Copeia (3), 195, 1956.

4187 BRODY, R.W. Fish poisoning in the eastern Caribbean. Proc. Gulf Caribb. Fish Inst., 24th Ann. Sess. p. 100, 1972.

4188 BROSCH, A. Zur Casuistik der Fischvergiftung. Wien Klin. Wschr. 9, 219, 1896.

4189 BROWN, H.H. The fisheries of the windward and leeward islands. Rept. Develop. Welfare West Indies (20), 34p., 1945.

4190 BROWN, L.D. and DORN, C.R. Fish, shellfish and human health. J. food Protec. 40, 712, 1977.

4191 BROWN, M.S. and MOSHER, H.S. Tarichatoxin: isolation and purification. Science 140, 295, 1963.

4192 BRYANT, E.G. The moon and poisonous fish. Nature 90, 305, 1912.

4193 BUCHWALD, H.D., FISCHER, H.G. and MOSHER, H.S. Tarichatoxin. Am. chem. Soc. 146, 39c, Jan. 1964 (Abst.).

4194 BUCHWALD, H.D., DURHAM, L., FISCHER, H.G. et al. Identity of tarichatoxin and tetrodotoxin. Science 143, 474, 1964.

4195 BUDDLE, R. Some common poisonous fishes found in Singapore waters. J. Roy. Nav. med. Ser. 16, 102, 1930.

- 4196 BUFFA, E. Ricerche sperimentali sulla tossicità del sangue della lampreda. Giorn. Accad. Med. Torino, Ser. 4-5, 341, 1899.
- 4197 BUFFA, E. Recherches expérimentales sur la toxicité du sang de la lamproie. Arch. Ital. Biol. 33, 177, 1900.
- 4198 BUGLIA, G. Sur l'action toxique exercée sur le sang par les extraits aqueux de corps des jeunes anguilles encore transparentes (cieche). Arch. Ital. Biol. 69, 119, 1919; see also Sull'azione tossica che gli estratti acquosi del corpo delle giovani anguille ancora trasparenti (cieche) esercitano sul sangue. Atti. Soc. Tosc. Sci. Nat. (Mem.) 31, 1917.
- 4199 BUGLIA, G. Sur la toxicité des extraits aqueux du corps des jeunes anguilles encore transparentes (cieche). Arch. Ital. Biol. 69, 185, 1919.
- 4200 BUGLIA, G. Ricerche sulla natura del veleno dell'anguilla. I. L'ittiotossico e termotabile. Atti Accad. Nazl. Lincei Rend. 28, 54, 1919.
- 4201 BUGLIA, G. Sulla tossicità degli estratti acquosi del corpo delle giovani anguille ancora trasparenti (cieche). Atti Soc. Tosc. Sci. Nat. (Mem.) 32, 1919; see also Sur la toxicité des extraits aqueux du corps des jeunes anguilles encore transparentes (cieche). Arch. Ital. Biol. 69, 185, 1919.
- 4202 BUGLIA, G. Recherches sur la nature du venin de l'anguille. Arch. Ital. Biol. 70, 77, 1920.
- 4203 BUGLIA, G. Ricerche sulla natura del veleno dell'anguilla. VII. Della sostanza che emolizza il sangue. Atti. Soc. Tosc. Sci. Nat. (Mem.) 34, 87, 1921.
- 4204 BUGLIA, G. Nouvelles recherches sur l'action toxique que les extraits aqueux du corps des jeunes anguilles encore transparentes (cieche) exercent sur le sang. Arch. Ital. Biol. 71, 1, 1922.
- 4205 BUGLIA, G. Recherches sur la nature du venin de l'anguille. VII. De la substance qui hémolyse le sang. Arch. Ital. Biol. 72, 81, 1923.
- 4206 BUGLIA, G. and BARBIERI, G. Perché il veleno dell'anguilla introdotto per via gastrica non è tossico. Arch. Sci. Biol. (Naples) 3, 26, 1922.
- 4207 BUGLIA, G. and BARBIERI, G. Pourquoi le venin de l'anguille introduit par voie gastrique n'est pas toxique. Arch. Ital. Biol. 72, 116, 1923.
- 4208 BULL, R.J. and TREVOR, A.J. Saxitoxin, tetrodotoxin and metabolism and cation fluxes in isolated cerebral tissue. J. Neurochem. 19, 999, 1972.
- 4209 BURKLEW, M.A. and MORTON, R.A. The toxicity of Florida gulf puffers, genus *Sphoeroides*. Toxicon 9, 205, 1971.
- 4210 BURROWS, W. Periodic spawning of "palolo" worms in Pacific waters. Nature 155, 47, 1945.
- 4211 BUTSCH, R.S. A list of Barbadian fishes. J. Barbados Mus. 7, 17, 1939.
- 4212 CABIOCH, L. Contribution a la connaissance des peuplements benthiques de la Manche occidentale. Cah. Biol. Mar. 9, 493, 1968.
- 4213 CABIOCH, L. and GENTIL, F. Distribution des peuplements benthiques dans la partie orientale de la Baie de Seine. C.R. Acad. Sc. Paris 280, 571, 1975.

- 4214 CABIOCH, L. and GLACON, R. Distribution des peuplements benthiques en Manche orientale de la Baie de Somme au Pas de Calais. C.R. Acad. Sci. Paris 280, 491, 1975.
- 4215 CABIOCH, L., GENTIL, F., GLACON, R. and RETIERE, C. Le macre benthos des fonds meubles de la Manche: distribution générale et écologie. Keegan, B.F., Cedigh, P.O. and Boaden, P.J.S. (eds.), Pergamon: N.Y., p. 115, 1977.
- 4216 CAHALAN, M.D. and ALMERS, W. Interactions between quaternary lidocaine, the sodium channel gates, and tetrodotoxin. Biophys. J. 27, 39, 1979.
- 4217 CALMETTE, A. Les Venins. Les Animaux Venimeux et la Sérothérapie Antivenimeuse. Masson & Cie: Paris, 396p., 1907.
- 4218 CALMETTE, A. Venoms. Venomous Animals and Antivenimous Serum Therapeutics. John Bale, Sons & Danielsson: London, 403p., 1908.
- 4219 CAMEJO, G. and VILLEGAS, R. Tetrodotoxin interaction with cholesterol. Biochim. biophys. Acta 173, 351, 1969.
- 4220 CAMERON, A.M. Toxicity phenomena in coral reef waters. Proc. 2nd intern. Coral Reef Symp. I, 513, 1974.
- 4221 CAMERON, A.M. and ENDEAN, R. The axillary glands of the plotosid catfish Cnidogobius macroginosus (Schneider). Toxicon 9, 345, 1971.
- 4222 CAMERON, A.M. and ENDEAN, R. Epidermal secretions and the evolution of venom glands in fishes. Toxicon 11, 401, 1973.
- 4223 CAMOUGIS, G., TAKMAN, B.H. and TASSE, J.R.P. Potency difference between the zwitterion form and the cation forms of tetrodotoxin. Science 156, 1625, 1967.
- 4224 CAMUS, L. and GLEY, E. De la toxicité du sérum d'anguille pour des animaux d'espèce différente (Lapin, Cobaye, Hérisson). C.R. Soc. Biol. 50, 129, 1898.
- 4225 CAMUS, L. and GLEY, E. De l'action destructive d'un sérum sanguin sur les globules rouges d'une autre espèce animal. Immunisation contre cette action. C.R. Acad. Sci. 126, 428, 1898.
- 4226 CAMUS, L. and GLEY, E. Sur le mécanisme de l'immunisation contre l'action globulicide du sérum d'anguille. C.R. Acad. Sci. 127, 330, 1898.
- 4227 CAMUS, L. and GLEY, E. Recherches sur l'action physiologique du sérum d'Anguille. Contribution à l'étude de l'immunité naturelle et acquise. Arch. intern. Pharmacodyn. Thé. 5, 247, 1898.
- 4228 CAMUS, L. and GLEY, E. Nouvelles recherches sur l'immunité contre le sérum d'Anguille. Contribution à l'étude de l'immunité naturelle. Ann. Inst. Pasteur 13, 779, 1899.
- 4229 CAMUS, L. and GLEY, E. Expériences concernant l'état refractaire au sérum d'Anguille. Immunité cytologique. C.R. Acad. Sci. 129, 231, 1899.
- 4230 CAMUS, L. and GLEY, E. Comparaison entre l'action hémolytique et la toxicité du sérum d'Anguille chez la Marmotte (Arctomys marmota). Arch. exp. Pharm. Ther. 15, 159, 1905.
- 4231 CAMUS, L. and GLEY, E. Action hémolytique et toxicité générale du sérum d'Anguille pour la

- Marmotte. C.R. Acad. Sci. **140**, 1717, 1905.
- 4232 CAMUS, L. and GLEY, E. Recherches sur l'immunisation contre les sérums toxiques. J. Physiol. Path. gén. **12**, 781, 1910.
- 4233 CAMUS, L. and GLEY, E. De l'action du sérum d'Anguille sur le chat. C.R. Soc. Biol. **71**, 158, 1911.
- 4234 CAMUS, L. and GLEY, E. Sur le mécanisme de l'action hémolytique du sérum d'Anguille. C.R. Acad. Sci. **154**, 1630, 1912.
- 4235 CAMUS, L. and GLEY, E. Immunisation croisée. Action réciproque du sérum d'Anguille ou du sérum de Murene sur des animaux immunisés contre l'une ou l'autre de ces ichthyotoxines. C.R. Soc. Biol. **82**, 1240, 1919.
- 4236 CAMUS, L. and GLEY, E. La relation entre la toxicité du sérum d'Anguille et son action glubulicide. C.R. Soc. Biol. **101**, 866, 1929.
- 4237 CANGIANO, A. and LUTENBERGER, L. Normal EDL and diaphragm muscles differ in their sensitivity to tetrodotoxin. Acta Physiol. Scand. **108**, 205, 1980.
- 4238 CARES. Surveillance report. Bull. Pan Am. Hlth. Org. **9**, 258, 1975.
- 4239 CARNEGIE, A.L. Poisoning by barracuda fish. W. Indian med. J. **12**, 217, 1963.
- 4240 CARRUCCIO, A. Sull'avvelenamento per ingestione di pesci. Bull. Roy. Accad. Med. Roma **8**, 353, 1886.
- 4241 CATTERALL, W.A. Cooperative activation of action potential Na^+ ionophore by neurotoxins. Proc. natn. Acad. Sci. **72**, 1782, 1975.
- 4242 CATTERALL, W.A. Neurotoxins as allasteric modifiers of voltage-sensitive sodium channels. In, Advances in Cytoparmacology. Ceccarelli, B. and Clementi, F. (eds.), Raven Press: N.Y., Vol. 3, p. 305, 1979.
- 4243 CAVALLO, A. and BOUDER, H. Ichtyotoxisme et problèmes économiques, essais de prophylaxie. Arch. Inst. Pasteur Nouméa, Rapport Tech. (32), 1961.
- 4244 CAVAZZANI, E. L'ittiotossico nel Petromyzon marinus. Gior. Accad. Med. Torino **40**, 872, 1892; see also L'ichtyotoxique chez le Petromyzon marinus. Arch. Ital. Biol., Turin **18**, 182, 1892.
- 4245 CESA-BIANCHI, D. Sull'azione reciproca degli estratti dei diversi organi. Pathologica **3**, 344, 1911.
- 4246 CHABANAUD, P. Le frein de la thoracopterygie et les caractères adaptatifs des poissons de l'ordre des Scombroidea. Bull. Soc. zool. Fr. **68**, 110, 1943.
- 4247 CHACKO, G.K. Effect of purified phospholipases on the binding of tetrodotoxin to axon plasma membrane. J. membrane Biol. **47**, 285, 1979.
- 4248 CHACKO, G.K., BARNOLA, F.V., VILLEGAS, R. and GOLDMAN, D.E. The binding of tetrodotoxin to axonal membrane fraction isolated from garfish olfactory nerve. Biochim. biophys. Acta **373**, 308, 1974.
- 4249 CHAN, S.L. and QUASTEL, J.H. Tetrodotoxin: effects on brain metabolism in vitro. Science **156**, 1752, 1967.
- 4250 CHANTEAU, S., BAGNIS, R. and YASUMOTO, T. Purification of ciguatoxin of the loach

- Epinephelus microdon (Bleeker). Biochimie (Paris) 58, 1149, 1976.
- 4251 CHAO, R.L.C., PARKER, J.W., RUSSELL, F.E. and HASHIMOTO, Y. Ultrastructure of the skin of the soapfish Grammistes sexlineatus. In, Toxins: Animal, Plant and Microbial. Rosenberg, P. (ed.), Pergamon: Oxford, p. 565, 1978; see also Fifth Intern. Symp. Animal, Plant, Microbial Toxins, Costa Rica, p. 1, Aug. 1976 (Abst.).
- 4252 CHARNOT, A. La toxicologie au Maroc. Mém. Soc. Sci. nat. Maroc. 47, 86, 1945.
- 4253 CHERMERIS, N.K., BOCHAROVA, L.S. and GELETYUK, V.I. Trypsin induced masking of tetrodotoxin receptor of the sodium channels in mollusk neurons. Biochim. biophys. Acta 559, 771, 1980.
- 4254 CHENG, C., CHENG, K. and WANG, J. The action of tetrodotoxin on the heart. J. Path. 100, 121, 1970.
- 4255 CHENG, K.K., LING, Y.L. and WANG, J. C.-C. The failure of respiration in death by tetrodotoxin poisoning. Q. J. exp. Physiol. 53, 119, 1968.
- 4256 CHENG, P.C. and DOORENBOS, N.J. Ciguatera fish poison in the Caribbean. Lloydia 37, 641, 1974.
- 4257 CHEVALLIER, A. Sur des cas de l'empoisonnement par des poissons. J. Pharm. Chim., Paris 2, 85, 1856.
- 4258 CHEVALLIER, A. and DUCHESNE, E.A. Mémoire sur les empoisonnements par les huitres, les moules, les crabes, et par certains poissons de mer et de riviere. Ann. Hyg. pub. 45, 387; 46, 108, 1851.
- 4259 CHEYMOL, J. De dos sustancias biogénicas inhibidoras neuromusculares: tetrodotoxina y saxitoxina. Arch. fac. med. Madrid. 8, 151, 1965.
- 4260 CHEYMOL, J. and BOURILLET, F. Transmission neuromusculaire et tetrodotoxin. Biochem. Pharmacol. 8, 150, 1961.
- 4261 CHEYMOL, J. and BOURILLET, F. D'une nouvelle classe de substances biologiques: tetrodotoxine, saxitoxine, tarichatoxine. Actual. Pharmacol. 19, 1, 1966.
- 4262 CHEYMOL, J., BOURILLET, F. and OGURA, Y. Influence de la tetrodotoxine cristallisée et de la cocaïne sur la libération de l'acétylcholine au niveau des terminaisons nerveuses motrices. Med. Experimentalis 6, 79, 1962.
- 4263 CHEYMOL, J., BOURILLET, F. and OGURA, Y. Action de quelques paralysants neuromusculaires sur la libération de l'acétylcholine au niveau des terminaisons nerveuses motrices. Arch. intern. Pharmacodyn. 139, 187, 1962.
- 4264 CHEYMOL, J., DEYSSON, G., BOURILLET, F. and ADOLPHE, M. Sur la cytotoxicité de la tetrodotoxine. C.R. Soc. Biol. 159, 1506, 1965.
- 4265 CHEYMOL, J., FOULHOUX, P., BOURILLET, F. and SIMON, P. Action de la tetrodotoxine sur les phénomènes électriques de la transmission neuromusculaire. C.R. Soc. Biol. 156, 602, 1962.
- 4266 CHEYMOL, J., KOBAYASHI, T., BOURILLET, F. and TETREAULT, L. Sur l'action paralysante neuromusculaire de la tetrodotoxine. Arch. intern. Pharmacodyn. 134, 28, 1961.

- 4267 CHICHEPORTICHE, R., BALERNA, M., LOMBET, A., ROMÉY, G. and LAZDUNSKI, M. Synthesis and mode of action of axonal membranes of photoactivable derivatives of tetrodotoxin. J. biol. Chem. 254, 1552, 1979.
- 4268 CHUNGUE, E. and BAGNIS, R. Anatomical distribution of toxicity in the parrotfish Scarus gibbus. Rev. int. Oceanogr. Méd. 41-42, 99, 1976.
- 4269 CHUNGUE, E., BAGNIS, R. and YASUMOTO, T. Le complexe toxique des poissons perroquets. Biochimie 59, 739, 1977.
- 4270 CHUNGUE, E., BAGNIS, R., FUSE-TANI, N. and HASHIMOTO, Y. Isolation of two toxins from a parrotfish Scarus gibbus. Toxicon 15, 89, 1977.
- 4271 CHUNGUE, E., BAGNIS, R., FUSE-TANI, N. and YASUMOTO, T. The toxin complex from the parrot fish. Biochimie 59, 739, 1977.
- 4272 CHUNGUE, E., CHANTEAU, S., HURTEL, J.M. and BAGNIS, R. Étude toxicologique de plusieurs espèces d'algues benthoplanctoniques des biotopes ciguaterigènes, cultivées en milieu artificiel non axénique. Rev. intern. Oceanogr. Méd. 55, 35, 1979.
- 4273 CIGNETTI, F. La tossicità del sangue di Tinca. Arch. intern. Pharmacodyn. 7, 433, 1970.
- 4274 CILENTO, R.W. Tropical Diseases in Australia. W.R. Smith & Paterson: Brisbane, Chap. 16, 1940.
- 4275 CILENTO, R.W. Some Poisonous Plants. Sea and Land Animals of Australia and New Guinea. W.R. Smith & Paterson: Brisbane, 37p., 1944.
- 4276 CLARK, A.H. Shark intoxication. Science 41, 795, 1915.
- 4277 CLARK, E. Fisherman beware! Fishing for poisonous plectognaths in the western Carolines. Res. Rev., U.S. Navy, NAVEXOS P-510, 1, 1950.
- 4278 CLARK, E. and CHAO, S. A toxic secretion from the Red Sea flatfish Pardachirus marmoratus (Lacepede). Bull. Sea Fish. Res. Stn. Israel (60), 53, 1973.
- 4279 CLARK, E. and GEORGE, A. Toxic soles. Pardachirus marmoratus from the Red Sea and P. pavoninus from Japan, with notes on other species. Environ. Biol. Fish. 4, 103, 1979.
- 4280 CLARK, E. and GOHAR, H.A. The fishes of the Red Sea: order Plectognathi. Publ. Mar. Biol. Sta. Al Ghardaqa (Red Sea) 8, 1, 1953.
- 4281 CLARK, L. and WHITWELL, G.B. Ciguatera poisoning in cats in Brisbane. Aust. Vet. J. 44, 81, 1968.
- 4282 CLARK, W.G. and COLDWELL, B.A. The hypothermic effect of tetrodotoxin in the unanesthetized cat. J. Physiol. 230, 477, 1973.
- 4283 CLARK, W.G. and LIPTON, J.M. Complementary lowering of the behavioral and physiological thermoregulatory set-points by tetrodotoxin and saxitoxin in the cat. J. Physiol. 238, 181, 1974.
- 4284 CLARKE, T.L. Some observations of fish poisoning in the Virgin Islands. W. Indian Bull. 17, 56, 1918.
- 4285 CLAVIGERO, F.J. [The History of (lower) California (1789).] Transl. by Lake, S.E. and Gray, A.A.,

Stanford Univ. Press: Stanford, Calif., Vol. 2, p. 213, 1937.

- 4286 CLELAND, J.B. Injuries and diseases in man in Australia attributable to animals (except insects). Aust. med. Gaz. 11, 269; 12, 297, 1912.
- 4287 CLELAND, J.B. Injuries and diseases of man in Australia attributable to animals (except insects). J. trop Med. Hyg. 16, 25, 1913.
- 4288 CLELAND, J.B. Injuries and diseases in Australia attributable to animals (other than insects). Med. J. Aust. (Ser. 4), 1, 159, 1932.
- 4289 CLELAND, J.B. Injuries and diseases in Australia attributable to animals (insects excepted). Med. J. Aust. (Ser. 5), 2, 314, 1942.
- 4290 CLELAND, J.B. and SOUTHCOTT, R.V. Injuries to Man from Marine Invertebrates in the Australian Region. Commonwealth Aust.: Canberra, p. 12, 1965.
- 4291 CLERC, A. and LOEPER, M. Influence des injections intraveineuses de peptone sur l'intoxication par le sérum d'anguille. C.R. Soc. Biol. 54, 1061, 1902.
- 4292 COBB, S. Acetylcholine, the neuromuscular junction and certain drugs and poisons. Bull. Univ. Miami Sch. Med. 14, 10, 1960.
- 4293 COCKERILL, L.M. and POLYA, J.B. Action of tetrodotoxin on microsomal structural proteins of sheep brain. Enzymologia 35, 100, 1968.
- 4294 COHEN, C.J., COLATSKY, T.J. and TSIEN, R.W. Tetrodotoxin block of cardiac sodium channels during repetitive or steady depolarization in the rabbit. J. Physiol. 296, 70, 1979.
- 4295 COHEN, I.S. and STRICHARTZ, G.R. On the voltage-dependent action of tetrodotoxin. Biophys. J. 17, 275, 1977.
- 4296 COHEN, S.C., EMERT, J.T. and GOSS, C.C. Poisoning by barracuda-like fish in the Marianas. U.S. Nav. med. Bull. 46, 311, 1946.
- 4297 COLBY, M. Poisonous marine animals in the Gulf of Mexico. Proc. Trans. Texas Acad. Sci. 26, 62, 1943.
- 4298 COLENO, R. Étude sur les poissons vulnérants et sur les traumatismes causés chez l'homme par les poissons. Méd. trop. 20, 180, 1960.
- 4299 COLLAS. Note sur les propriétés dangereuses d'un poisson: Gobius criniger. Moniteur des Établissements Français de l'Inde, 1861.
- 4300 COLLETTE, B.B. A review of the venomous toadfishes, subfamily Thalassophryninae. Copeia 4, 846, 1966.
- 4301 COLQUHOUN, D., HENDERSON, R. and RITCHIE, J.M. The binding of tritium-labelled tetrodotoxin to non-myelinated nerve. J. Physiol. 224, 25, 1972.
- 4302 COLQUHOUN, D., RANG, H.P. and RITCHIE, J.M. Tetrodotoxin binding to innervated and denervated rat diaphragm homogenates. Br. J. Pharmacol. 51, 125, 1974.
- 4303 COLQUHOUN, D., RANG, H.P. and RITCHIE, J.M. The binding of tetrodotoxin and a-bungarotoxin to normal and denervated mammalian muscle. J. Physiol. 240, 199, 1974.
- 4304 COOK, J. A Voyage Towards the South Pole and Around the World. London, Vol. 2, p. 112, 1777.

- 4305 COOPER, M.J. Ciguatera and other marine poisoning in the Gilbert Islands. Pac. Sci. 18, 411, 1964.
- 4306 CORABOEUF, E., DEROUBAIX, E. and COULOMBE, A. Effect of tetrodotoxin on action potentials of the conducting system in the dog heart. Am. J. Physiol. 236, H561, 1979.
- 4307 CORDOVA, M. and BAGWELL, E.E. Studies of the interaction between tetrodotoxin (TTX) and propranolol (P) on V_{max} in canine Purkinje fibers. Fed. Proc. 39, 1082, 1980.
- 4308 CORRE, A. Note pour servir à l'histoire des poissons vénéneux. Arch. Méd. Nav., Paris 3, 136, 1865.
- 4309 CORRE, A. Nouvelle note relative aux poissons vénéneux. Arch. Méd. Nav., Paris 35, 63, 1881.
- 4310 COSTES, P. and AVRIL, E. À propos de 3 cas d'intoxication par des Tetraodontides observés en France. Bull. Soc. Path. exot. 72, 92, 1979.
- 4311 COUILLARD, P. An antimitotic substance in the ovary of the common puffer, Sphaeroides maculatus. Biol. Bull. Woods Hole 105, 372, 1953.
- 4312 COUILLARD, P. Anticoagulant and antimitotic substances from the ovary of the puffer, Sphaeroides maculatus, (Bloch and Schneider). Thesis, Univ. Pennsylvania, 85p., 1955.
- 4313 COUPIN, H. Les poissons dangereux. Méd. Mod. 10, 681, 1899.
- 4314 COUTAUD, H. Observations sur sept cas d'empoisonnement par le foie de requin (à l'île des Pins Nouvelle Calédonie, en 1873). Thèse, Montpellier (8), 47p., 1879.
- 4315 COUTIÈRE, H. Poissons venimeux et poissons vénéneux. Thèse, AGREG, École Super. Pharm. Paris, 217p., 1899; see also Thèse, Paris, Carré et Naud édit., part 3, 1899.
- 4316 CRAIG, C.P. It's always the big ones that should get away. J.A.M.A. 244, 272, 1980.
- 4317 CRAWFORD, M.L.J. and SHIBATA, S. Tetrodotoxin and the electrocortical response to light. Br. J. Pharmac. Chemother. 32, 25, 1968.
- 4318 CROWTHER, W.E.L.H. The Rontgen Oration. Practice and personalities at Hobart Town, 1828-1832, as indicated by the Day Book of James Scott, M.D., R.N., Senior Colonial Surgeon. Med. J. Aust. (1), (41st year), 12, 421, 1954.
- 4319 CRUICKSHANK, J.G. and WILLIAMS, H.R. Scombrotoxic fish poisoning. Br. med. J. (2), 739, 1978.
- 4320 CURTISS, A. A Short Zoology of Tahiti in the Society Islands. Priv. print.: Tahiti, 193p., 1938.
- 4321 CUZON, G., BAGNIS, R., MOREAU, J.P. et al. Los protéines seriques de Ctenochaetus atrilatus: modifications du schéma électrophorétique chez les poissons ciguatérigènes. C.R. Soc. Biol. 167, 79, 1972.
- 4322 DACK, G.M. Poisonous plants and animals. In, Food Poisoning. Univ. Chicago Press: Chicago, 138p., 1956.
- 4323 DA FONSECA, O.O.R. Sobre os peixes venenosos. Braz. Med. 31, 90, 1917.
- 4324 DA FONSECA, O.O.R. Sobre os peixes venenosos. Braz. Med. 31, 97, 1917; see also J.A.M.A. 68,

- 1589, 1917; Physiol. Abstr. **2**, 395, 1917.
- 4325 DA FONSECA, O.O.R. Algumas observações sobre peixes venenosos na Bahia. Braz. Med. **33**, 308, 1919.
- 4326 DAHL, F. Die Tierwelt Deutschlands und der angrenzenden Meeres-teile: Säugetiere, Vögel, Kriechtiere, Lurche, Fische. G. Fischer: Jena, 207p., 1925.
- 4327 DALRYMPLE, A. An Historical Collection of the Several Voyages and Discoveries in the South Pacific. J. Nourse: London, Vol. 1, p. 140, 1775.
- 4328 DANILEWSKY, K. A case of poisoning by fish poison. Vratch. **50**, 854, 1885.
- 4329 D'ARCA, S.U., DI VINCENZO, A. and VALENTI, M. Intossicazioni acute da pesci e molluschi. Ist. Ig. 'G. Sanarelli', Univ. Roma, Rome, Italy. Aliment. Nutr. Metab. **4**, 35, 1979.
- 4330 D'ARRAS, L. Essai sur les accidents causes par les poissons. Thèse, Fac. Med. Paris, 156, 1877.
- 4331 D'ARRIGO, J.S. Structural characteristics of the saxitoxin receptor on nerve. J. membrane Biol. **29**, 231, 1976.
- 4332 DAVIN, W.T., JR., DOORENBOS, N.J. and LONGEST, W.D. The geographic distribution of ciguateric fish in the eastern half of the British Virgin Islands. In, Drugs and Food from the Sea. Myth or Reality? Kaul, P.N. and Sinderman, S. (eds.), Univ. Okla. Press: Norman, Okla., p. 209, 1978.
- 4333 DAWSON, E.Y. Changes in Palmyra Atoll and its vegetation through the activities of man, 1913-1958. Pac. Naturalist **1**, 1, 1959.
- 4334 DAWSON, E.Y., ALEEM, A.A. and HALSTEAD, B.W. Marine algae from Palmyra Island with special reference to the feeding habits and toxicology of reef fishes. A. Hancock Found. Publ., Occ. Pap. (17), 1955.
- 4335 DAWSON, J.M. Fish poisoning in American Samoa. Hawaii med. J. **36**, 239, 1977.
- 4336 DAY, F. On fish as food, or the reputed origin of disease. Indian med. Gaz. **6**, 5, 26, 1871.
- 4337 DEAN, B. A Bibliography of Fishes. Am. Mus. Nat. Hist.: N.Y., Vol. 1, 1916; Vol. 2, 1917; Vol. 3, 1923.
- 4338 DE CLERCQ, M. Aperçu sur les recherches scientifiques effectuées dans le domaine de la toxicologie marine. Les animaux marins toxicophores. Ann. Biol. **3**, 429, 1964.
- 4339 DEGUCHI, T. Structure and activity in tetrodotoxin derivatives. Jpn. J. Pharm. **17**, 267, 1967.
- 4340 DEICHMANN, W.B., MACDONALD, W.E., CUBIT, D.A. et al. Pain in jawbones and teeth in ciguatera intoxications. Florida Scientist **40**, 227, 1977.
- 4341 DEITHER, J.W. and ELLIS, D. The intracellular sodium activity of sheep heart Purkinje fibres: effects of local anesthetics and tetrodotoxin. J. Physiol. **300**, 269, 1980.
- 4342 DELEZENNE, C. De l'action du sérum d'anguille sur la coagulation du sang. Formation d'une substance anticoagulante par circulation artificielle du serum d'anguille à travers le foie. C.R. Soc. Biol. **49**, 42, 1897; see also

- Arch. Physiol. norm. Path. 9, 646, 1897.
- 4343 DELFIN, F.T. Concordancia de nombres vulgares y científicos de los Peces de Chile. Imp. Gillet: Valparaíso, 82p., 1902; see also Rev. Chilena Hist. Nat. 6, 71, 1902.
- 4344 DEMPSTER, G.O.L. Fish poisoning. Br. med. J. (1), 775, 1949.
- 4345 DE SYLVA, D.P. Poisoning by barracuda and other fishes. Univ. Miami Mar. Lab., Spec. Serv. Bull. (13), 1956.
- 4346 DE SYLVA, D.P. Systematics and life history of the great barracuda, Sphyræna barracuda (Walbaum). Stud. trop. Oceanogr., Miami 1, 1, 1963.
- 4347 DE SYLVA, D.P. Poison in the pot. Sea Frontiers 13, 2, 1968.
- 4348 DE SYLVA, D.P. What causes ciguatera? In, Toxicology and Occupational Medicine. (Proc. 10th Inter-Amer. Conf., Key Biscayne, Fla., 1978), Deichmann, W.B. (ed.), Elsevier/North-Holland: N.Y., p. 423, 1979.
- 4349 DE SYLVA, D.P. and DEICHMANN, W.B. Toxins in the ciguatera food chain. In, Toxicology and Occupational Medicine. (Proc. 10th Inter-Amer. Conf., Key Biscayne, Fla., 1978), Deichmann, W.B. (ed.), Elsevier/North-Holland: N.Y., p. 433, 1979.
- 4350 DE SYLVA, D.P. and HINE, A.E. Ciguatera—marine fish poisoning—a possible consequence of thermal pollution in tropical seas? In, Marine Pollution and Sea Life. Ruivo, M. (ed.), Fish. Books News Ltd.: London, p. 594, 1972.
- 4351 DETTBARN, W.D., HIGMAN, H.B., ROSENBERG, P. and NACHMANSOHN, D. Rapid and reversible block of electrical activity of powerful marine biotoxins. Science 132, 300, 1960.
- 4352 DEWBERRY, E.B. Food poisoning. Food Manufacture. London, Aug. 8 & 13, p. 275, 1938.
- 4353 DEWBERRY, E.B. Poisonous fish. In, Food Poisoning, its Nature, History, and Causation; Measures for its Prevention and Control. Leonard Hill: London, p. 150, 1947.
- 4354 D'HOSTALRICH. Trois cas d'empoisonnement par un poisson toxiphore du genre Tetrodon. Rev. Méd. Hyg. trop. 8, 90, 1911.
- 4355 DIETMANN, H. [Animal poisons.] Pharm. Presse 31, 4, 22, 1926.
- 4356 DOERR, R. and RAUBITSCHKE, H. Toxin und anaphylaktisierende Substanz des Aalserums. Berl. klin. Wschr. 45, 1525, 1908.
- 4357 DOORENBOS, N.J. and YASUMOTO, T. Ciguatera. In, Toxic Dinoflagellate Blooms. (Proc. 2nd Intern. Conf.), Taylor, D.L. and Seliger, H.H. (eds.), Elsevier/North-Holland: N.Y., p. 468, 1979.
- 4358 DOWN, R.J. The medical significance of shellfish and blowfish neurotoxins (saxitoxin and tetrodotoxin) as suggested by tests in killifish (Fundulus heteroclitus). In, Food-Drugs from the Sea. Youngen, H.W. (ed.), Mar. Tech. Soc.: Washington, p. 327, 1970.
- 4359 DOWN, R.J. Tetrodotoxin: rapid release of high concentration from skin of the Atlantic puffer, Spheroïdes nephelus. Toxicon 13, 90, 1975 (Aust.).

- 4360 DREISBACH, R.H. Handbook of Poisoning: Diagnosis and Treatment. 3rd edit., Lange Med. Publ.: Los Altos, Calif., 483p., 1966.
- 4361 DRILHON, A. and FINE, J. Différences individuelles dans le comportement électrophorétique des protéines et des lipoprotéines sériques chez l'Anguille. C.R. Acad. Sci. 250, 4044, 1960.
- 4362 DRILHON, A. À propos de la ciguatera intoxication. Saint-Barthelemy, 9p., 1952.
- 4363 DUBOS, M., NGUYEN, T.L., LAM-OUREUX, P. et al. Alcyonidium gelatinosum et réactions cutanées d'hypersensibilité. Resultats préliminaires d'une étude expérimentale. Bull. Soc. Path. exot. 70, 82, 1977.
- 4364 DUCE, B.R., FLEDMAN, H.S. and SMITH, E.R. Acute cardiovascular, antiarrhythmic and toxic effects of tetrodotoxin (TTX) in unanesthetized dogs. Toxicol. appl. Pharmacol. 23, 701, 1972.
- 4365 DUDEL, J., PEPER, K., RÜDEL, R. and TRAUTWEIN, W. Effect of tetrodotoxin on membrane currents in mammalian cardiac fibers. Nature 213, 296, 1967.
- 4366 DUFVA, E., LOISON, G. and HOLMSTEDT, B. Duboisia myoporoides: native antidote against ciguatera poisoning. Toxicon 14, 55, 1976.
- 4367 DUHIG, J.V. and JONES, G. The venom apparatus of the stonefish (Syanceja horrida). Mem. Queensland Mus. 9, 136, 1928.
- 4368 DUMÉRIL, A. Des poissons vénéneux. Ann. Soc. Linn. Dept. Maine-et-Loire, Angers 8, 1, 1866; see also Ann. Mag. nat. Hist. Ser. 3, 20, 153, 1867.
- 4369 DUNCAN, C. A case of toadfish poisoning. Med. J. Aust. (2), 673, 1951.
- 4370 DUNCKER, G., EHRENBAUM, E., KYLE, H.M., MOHR, E.W. and SCHNAKENBECK, W. The Fishes of the East and North Seas. Akademische Verlagsgesellschaft M.B.H.: Leipzig, 527p., 1920.
- 4371 DUNLOP, W.R. Poisonous fishes in the West Indies. W. Indies Bull. 16, 159, 1917.
- 4372 DYMSZA, H., SHIMIZU, Y., RUSSELL, F.E. and GRAHAM, H.D. Poisonous marine animals. In, The Safety of Foods. Graham, H.D. (ed.), Avi Publ.: Westport, Conn., p. 625, 1980.
- 4373 EDWARDS, J. Poisoning by fish. Br. med. J. (1), 10, 1884.
- 4374 EGER, W.H. An exotoxin produced by the puffer, Arothron hispidus, with notes on the toxicity of other plectognath fishes. Thesis, Univ. Hawaii, 1963.
- 4375 EISENBERG, H.M. and WELCH, K. Alteration of sodium conductance of feline choroid plexus: effects of 2,4,6-triaminopyrimidine and tetrodotoxin. Brain Res. 107, 645, 1976.
- 4376 ELAM, K.S., FUHRMAN, F.A., KIM, Y.H. and MOSHER, H.S. Neurotoxins from three species of California goby: Clevelandia ios, Acanthogobius flavimanus and Gillichthys mirabilis. Toxicon 15, 45, 1977.
- 4377 ELDRIDGE, S. The diseases affecting European residents in Japan. Med. Times Gaz., London 2, 377, 1879.

- 4378 ELINGTON, A.C. Poisonous fishes the Caribbean area. W. Indies Bull. (6), 15p., 1959.
- 4379 ELMQUIST, D. and FELDMAN, D.S. Spontaneous activity at a mammalian neuromuscular junction in tetrodotoxin. Acta Physiol. Scand. 64, 475, 1965.
- 4380 ENDEAN, R. Marine toxins. Sci. J. 2, 57, 1966.
- 4381 ERLIJ, D. and ACEVES, J. Effects of tetrodotoxin and norepinephrine on frog's heart atrium. Physiologist 10, 163, 1967.
- 4382 ERSHOFF, B.H. Effects of diet on fish oil toxicity in the rat. J. Nutr. 71, 45, 1960.
- 4383 EVANS, M.H. Block of sensory nerve conduction in the cat by mussel poison and tetrodotoxin. In, Animal Toxins. Russell, F.E. and Saunders, P.R. (eds.), Pergamon: Oxford, p. 97, 1967; see also Toxicon 4, 295, 1967.
- 4384 EVANS, M.H. Topical application of saxitoxin and tetrodotoxin to peripheral nerves and spinal roots in cat. Toxicon 5, 289, 1968.
- 4385 EVANS, M.H. The effects of saxitoxin and tetrodotoxin on nerve conduction in the presence of lithium ions and of magnesium ions. Br. J. Pharmacol. 36, 418, 1969.
- 4386 EVANS, M.H. Mechanism of saxitoxin and tetrodotoxin poisoning. Br. med. Bull. 25, 263, 1969.
- 4387 EVANS, M.H. Spinal reflexes in cat after intravenous saxitoxin and tetrodotoxin. Toxicon 7, 131, 1969.
- 4388 EVANS, M.H. Comparison of the actions of saxitoxin and tetrodotoxin on the motor end-plate of frog muscle. Br. J. Pharmacol. 43, 681, 1971.
- 4389 EVANS, M.H. Tetrodotoxin, saxitoxin, and related substances: their applications in neurobiology. Intern. Rev. Neurobiol. 15, 83, 1972.
- 4390 EVERMANN, B.W. and SHAW, T.H. Fishes from eastern China, with descriptions of new species. Proc. Calif. Acad. Sci. (4), 16, 122, 1927.
- 4391 FARNSWORTH, N.R. Drugs from the sea. Tile & Till 55, 3, 1969.
- 4392 FARRINGTON, K. Salt water. Field & Stream p. 116, Oct. 1952.
- 4393 FAUCOMPRES, C., FERREZOU, J.P., BAGNIS, R. et al. Ciguatera: neurophysiological demonstration of toxicity of several ciguatoxic fractions. Bull. Soc. Pathol. exot. 68, 105, 1975.
- 4394 FAUST, E.S. Die tierischen Gifte. Friedrich Vieweg & Sohn: Braunschweig, 1906; see also Tierische Gifte: Fische, Pisces. Handbuch Exp. Pharm., Berlin 2, (2), 1841, 1924.
- 4395 FEINSTEIN, M.B. and PAIMRE, M. Comparative pharmacology of tetrodotoxin and local anesthetics. Pharmacologist 7, 188, 1965.
- 4396 FEINSTEIN, M.B. and PAIMRE, M. Mechanism of cardiovascular action of tetrodotoxin in the cat: block of conduction in peripheral sympathetic fibers. Circulation Res. 23, 553, 1968.
- 4397 FERRENDELLI, J.A. and KINSCHERF, D.A. Similar effects of phenytoin and tetrodotoxin on cyclic nucleotide regulation in depolarized brain tissue. J. Pharmacol. exp. Ther. 207, 787, 1978.

- 4398 FINE, J.M. and DRILHON, A. Analyse immunoélectrophorétique des constituants du sérum de l'Anguille. C.R. Acad. Sci. 250, 3241, 1960.
- 4399 FIRLY, S. and FONTAINE, M. Sur les relations existant dans le sérum d'anguille entre la teneur en protéines et le rapport de la pression osmotique du au NaCl à la pression osmotique totale. C.R. Soc. Biol. 110, 471, 1932.
- 4400 FISCHER, F. and ENOCH, C. Ein Beitrag zu der Lebre von den Fischgiften. Fortsch. Med. 10, 277, 1892.
- 4401 FISH, C.J. and COBB, M.C. Noxious Marine Animals of the Central and Western Pacific Ocean. Fish Wildl. Serv., U.S. Dept. Interior, Res. Rept. (36), 1954.
- 4402 FISHER, A.A. Atlas of Aquatic Dermatology. Grune & Stratton: N.Y., 112p., 1978.
- 4403 FITCH, J.E. Toxicity and taxonomic notes on the squaretail, Tetragonurus cuvieri. Calif. Fish Game 38, 231, 1952.
- 4404 FLECKER, H. Thread finned sea perch, Lutjanus nematophorus (Bleeker). Is this fish poisonous? Fish. Newsl. (Cronulla) (5), 4, 18, 1946.
- 4405 FLEISHER, J.H., KILLOS, P.J. and HARRISON, C.S. Effects of puffer poison on neuromuscular transmission. J. Pharm. exp. Ther. 133, 98, 1961; see also Fed. Proc. 19, 264, 1960 (Abst.).
- 4406 FLOESSNER, O. and KUTSCHER, F. Biochemische Studien über Petro-myzon fluviatilis L. 1. Mitteilung. Nachweis von Adenin, Xanthin, Methylguanidin, Leuzin, Tyrosin, Fettsäuren der Reihe $C_nH_{2n}O_2$ und der Gärungsmilchsäure. Z. Biol. 82, 302, 1925.
- 4407 FLOESSNER, O. and KUTSCHER, F. Biochemische Studien über Petro-myzon fluviatilis L. 2. Mitteilung. Nachweis von Neosin als Hauptextraktstoff von Betain, Cholin, Crangitin. Z. Biol. 82, 306, 1925.
- 4408 FLOESSNER, O. and MILLER, P.V. Zur Kenntnis des Neosins. Z. Biol. 94, 307, 1933.
- 4409 FOGEL, B.J. Neurotoxicity due to barracuda ingestion. J. Pediat. 64, 561, 1964.
- 4410 FONSSAGRIVES, J.B. Note sur le Tétodon toxicophore du Cap de Bonne-Espérance. Bull. Acad. Méd., Paris 23, 1059, 1858.
- 4411 FONSSAGRIVES, J.B. Animaux toxicophores. In, Traité d'hygiène navale. Baillière & Fils: Paris, p. 620, 1877.
- 4412 FONSSAGRIVES, J.B. Hygiène navale. 2nd edit., Baillière & Fils: Paris, 1879.
- 4413 FONSSAGRIVES, J.B. and MERICOURT, L., DE. Recherches sur les poissons toxicophores exotiques des pays chauds. Ann. Hyg. Pub. Méd. Lég., Paris Ser. 2, 16, 326, 1861.
- 4414 FONTAINE, M. and CALLAMAND, O. Sur l'activité antigonadotrope du sérum d'Anguille. C.R. Hebd. Acad. Sci. 225, 143, 1947.
- 4415 FORSTER, J.R. Observations Made During a Voyage Round the World. London, p. 209, 642, 1778.
- 4416 FORSTER, J.R. Insulae tropicae orientales. In, Descriptiones Animalium quae in Itinere ad Maris Australis Terras per Annos 1772, 1772 et 1774 Suscepto.

- Lichtenstein, H. (ed.), *Berolini ex Officina Academica*, p. 254, 282, 1884.
- 4417 FOSSET, M., DE BARRY, J., LENOIR, M.-C. and LAZDUNSKI, M. Analysis of molecular aspects of Na^+ and Ca^{2+} uptakes by embryonic cardiac cells in culture. J. biol. Chem. **252**, 6112, 1977.
- 4418 FRANK, G.B. and OHTA, M. Blockade of the reticulospinal inhibitory pathway by nitrous oxide and tetrodotoxin. Br. J. Pharmacol. **46**, 23, 1972.
- 4419 FREDERICQ, L. Die Sekretion von Schutz und Nutzstoffen. In, Handbuch der vergleichenden Physiologie. Winterstein, H. (ed.), Gustav Fischer: Jena, part 2, p. 166, 1924.
- 4420 FREEMAN, A.R. and FINGERMAN, M. Action of tetrodotoxin and observations on the characteristics of the chromatophore membrane of the prawn, *Palaemonetes*. Comp. Biochem. Physiol. **29**, 483, 1969.
- 4421 FRÓES, H.P. Peixes toxiferos do Brasil. Novas considerações Sobre os "niquins" da Bahia (Thalassophrynyidae). Bahia med. **4**, 69, 1933.
- 4422 FROUIN, A. Filtration de l'hémolyse du sérum d'anguille au travers des membranes de collodion. C.R. Soc. Biol. **65**, 355, 1908.
- 4423 FUHRMAN, F.A. Tetrodotoxin. Sci. Am. **217**, 60, 1967.
- 4424 FUHRMAN, F.A. Fish eggs. In, Toxic Constituents of Animal Foodstuffs. Liener, I.E. (ed.), Academic: N.Y., p. 73, 1974.
- 4425 FUHRMAN, F.A., FUHRMAN, G.J. and ROSEEN, J.S. Toxic effects produced by extracts of eggs of the cabezon *Scorpaenichthys marmoratus*. Toxicon **8**, 55, 1970.
- 4426 FUHRMAN, F.A., FUHRMAN, G.J., DULL, D.L. and MOSHER, H.S. Toxins from eggs of fishes and amphibia. Agric. food Chem. **17**, 417, 1969.
- 4427 FUHRMAN, F.A., RANNEY, B., SCHMIEGEL, J.L. and MOSHER, H. Some guanidine esters and their possible relationship to the action of tetrodotoxin. Proc. west. Pharmacol. Soc. **11**, 37, 1968.
- 4428 FUJII, R. and NOVALES, R.R. Tetrodotoxin: effects on fish and frog melanophores. Science **160**, 1123, 1968.
- 4429 FUJITA, T., MURAKI, S., SATO, K., NOGUCHI, R. and SHIMOJI, K. Effects of atropine and tetrodotoxin upon pancreozymin release from canine duodenum in response to luminal stimuli. Biomed. Res. **1**, 59, 1980.
- 4430 FUJIWARA, E. [Food intoxication from fresh cuttlefish.] Sogo Igaku **13**, 719, 1956.
- 4431 FUKUDA, J. and KAMEYAMA, M. Tetrodotoxin-sensitive and tetrodotoxin-resistant sodium channels in tissue-cultured spinal ganglion neurons from adult mammals. Brain Res. **183**, 191, 1980.
- 4432 FUKUDA, T. [Puffer poison and the method of prevention.] Nippon Iji Shimpo **762**, 1417, 1937.
- 4433 FUKUDA, T. [Swellfish: how this poisonous fish can be made good material for chafing dish.] Japan Times Mail **132**, 1939.

- 4434 FUKUDA, T. [Science of the puffer.] Nippon Gakujitsu Kyokai Hokoku 16, 7, 1941.
- 4435 FUKUDA, T. [Puffer poison, its treatment and its prevention.] Hoshu Igaku Koza, Kanahara Store, 1, 1942.
- 4436 FUKUDA, T. [Marked increase in cases of puffer poisoning.] Clin. Stud. 29, 1951.
- 4437 FUKUDA, T. and TANI, I. Statische Beobachtung über die Fuguvergiftung. Jpn. J. med. Sci., IV Pharm. 10, 48, 1937.
- 4438 FUKUDA, T. and TANI, I. [Puffer poison investigation.] Rept. 1. Kyushu Univ. med. News 11, 7, 1937.
- 4439 FUKUDA, T. and TANI, I. [The puffer poison investigation. Rept. 2.] Iji Eisei 7, 905, 1937.
- 4440 FUKUDA, T. and TANI, I. [Puffer poison investigation. Rept. 3.] Nippon Igaku oyobi Kenko Hoken (3528), 7, 1941.
- 4441 FUKUDA, T. and TANI, I. The puffer of the continent. Nippon Igaku oyobi Kenko Hoken (3308), 13, 1942.
- 4442 FURTADO, J.A. Pesquisas ichthyológicas na Bahia do Rio de Janeiro. These, Fac. Med., Rio de Janeiro, 1903.
- 4443 FURUKAWA, T., SASAOKA, T. and HOSOYA, Y. [Effects of tetrodotoxin on the neuromuscular junction.] Jpn. J. Physiol. 9, 143, 1959.
- 4444 FURUYA, K. [Case of fugu (tetraodon) poisoning.] Tokei Zasshi (Ohsaka), May 5, 1881.
- 4445 FURUYA, K. [An experience with poisoning from the roe of fugu.] Tokei Zasshi (Ohsaka), June 10, 1881.
- 4446 GADSBY, D.C. and COLATSKY, T.J. Kinetics and voltage independence of tetrodotoxin (TTX) block of background sodium channels in dog cardiac Purkinje fibers. Fed. Proc. 39, 2076, 1980.
- 4447 GAILLARD, C. Recherches sur les poissons représentés dans quelques tombeaux Égyptiens de l'ancien empire. Mém. Inst. Français Arch. Orient 51, 97, 1923.
- 4448 GAJARDO, T.R. Pescados venenosos. Rev. Mar. (Chile) 19, 87, 1965.
- 4449 GALLI, P.M. [Case of transient blindness from poisonous fish.] Vestn. Oftalmol. 29, 232, 1912.
- 4450 GANDELMANN, R. Hepatite tóxica causada pela administração parenteral de proteínas do cristalino de peixe. Rev. Bras. Med. 16, 345, 1959.
- 4451 GANOWIAK, Z. and NABRZYSKI, M. Ciguatera and some seafish biotoxins. Ann. Acad. Med. Gedanensis 8, 59, 1978.
- 4452 GARMAN, S. The cyprinodonts. Mem. Harvard Mus., Comp. Zool. 19, 1, 1895.
- 4453 GARNET, J.R. Venomous Australian Animals Dangerous to Man. Commonwealth Serum Laboratories: Parkville, Victoria, 86p., 1968.
- 4454 GATEWOOD, J.D. Naval Hygiene. P. Blakiston's: Philadelphia, p. 536, 1909.
- 4455 GAULTIER, M., FOURNIER, E., GERVAIS, P. and PIVA, C. [Poisoning by tropical fishes: ciguatera. Apropos of 8 cases.]

Ann. Med. Interne (Paris) 123,
253, 1972.

4456 GAUTIER, A. Empoisonnement par un poisson toxicophore en rade de Rio-Janeiro. Arch. Méd. nav. 2,
266, 1864.

4457 GAVRILOV, N. [The Problem of Poisonous Fishes of Odessa Bay.] Trudy vrachei stantsii skoroi pomoshchi: Odessa, 1908.

4458 GEIGER, E. Histamine content of unprocessed and canned fish. A tentative method of quantitative determination of spoilage. Food Res. 9, 293, 1944.

4459 GEIGER, E. On the specificity of bacterium-decarboxylase. Proc. Soc. exp. Biol. 55, 11, 1944.

4460 GEIGER, E. On the mechanism of histamine formation. Arch. Biochem. 17, 391, 1948.

4461 GEIGER, E. Role of histamine in poisoning with spoiled fish. Science 121, 865, 1955.

4462 GEIGER, E., COURTNEY, G. and SCHNAKENBERG, G. The content and formation of histamine in fish muscle. Arch. Biochem. 3, 311, 1944.

4463 GELB, A.M. and MILDVAN, D. Ciguatera fish poisoning. N.Y. J. Med. 79, 1080, 1979.

4464 GENGOU, O. De l'action empêchante du citrate de soude sur l'hémolysé par le sérum d'anguille. C.R. Soc. Biol. 63, 93, 1907.

4465 GERSHON, M.D. Effects of tetrodotoxin on innervated smooth muscle preparations. Br. J. Pharmacol. Chemother. 29, 259, 1967.

4466 GESSNER, O. Tierische Gifte. In, Handbuch der experimentellen Pharmakologie. Huebner, W. and Schuller, J. (eds.), Springer: Berlin, Vol. 6, p. 61, 81, 1938.

4467 GHIRETTI, F. and ROCCA, E. Some experiments on ichthyotoxin. In, Venomous Animals and Noxious Plants of the Pacific Region. Keegan, H.L. and Macfarlane, W.V. (eds.), Pergamon: Oxford, p. 211, 1963.

4468 GILL, W.W. Life in the Southern Isles. Religious Tract Soc.: London, p. 274, 1876.

4469 GILLETT, K. and MC NEIL, F. The Great Barrier Reef and Adjacent Isles. Coral Reef Press: Sydney, Australia, 209p., 1962.

4470 GILMAN, R.L. A review of fish poisoning in the Puerto Rico-Virgin Islands area. A report of ten cases occurring on Culebra Island. U.S. Nav. med. Bull. 40, 19, 1942.

4471 GITSCHIER, J., STRICHARTZ, G.R. and HALL, L.M. Saxitoxin binding to sodium channels in head extracts from wild-type and tetrodotoxin-sensitive strains of Drosophila melanogaster. Biochim. biophys. Acta 621, 291, 1980.

4472 GIUNIO, P. [Poisonous fish.] Higi jena i Tehnika, Zagreb 1, 282, 1948.

4473 GLEY, E. Recherches sur le sang des Sélaciens. Action toxique du sérum de torpille (Torpedo marmorata). C.R. Acad. Sci. 138, 1547, 1904.

4474 GLEY, E. De l'action des ichthyotoxines sur le système nerveux des animaux immunisés contre ces substances. C.R. Acad. Sci. 145, 1210, 1907.

- 4475 GLEY, E. Sur la toxicité du sérum sanguin de Lamproie. C.R. Soc. Biol. 78, 116, 1915.
- 4476 GLEY, E. Sur l'action hémolitique du sang des jeunes anguilles encore transparentes. C.R. Soc. Biol. 82, 817, 1919.
- 4477 GODET, G. Étude sur l'hygiène au Japon. Thesis, Fac. Méd. Paris 465, 29, 1880.
- 4478 GOE, D.R. and HALSTEAD, B.W. A preliminary report of the toxicity of the gulf puffer, *Sphoeroides annulatus*. Calif. Fish Game 39, 229, 1953.
- 4479 GOE, D.R. and HALSTEAD, B.W. A case of fish poisoning from *Caranx ignobilis* Forskål from Palmyra Island, with comments on the sensitivity of the mouse-injection technique for the screening of toxic fishes. Copeia (3), 238, 1955.
- 4480 GOERTZ, A. Ueber in Japan vorkommende Fisch- und Lack-Vergiftungen. Mitt. Deut. Ges. Naturk. Ostasiens, Yokohama 8, 23, 1875; see also Med. Wschr. 3, 94, 101, 1878.
- 4481 GOLDENBERG, M.M. Resistance to tetrodotoxin in the isolated ileum of the rat. J. Pharm. Pharmacol. 23, 621, 1971.
- 4482 GOLIN, S. and LARSON, E. An antidotal study on the skin extract of the puffer fish *Spheroideis maculatus*. Toxicon 7, 49, 1969.
- 4483 GÓMEZ, I.C. Algunos peces venenosos de la República Mexicana. Bol. Dir. Estud. Biol. 3, 66, 1926.
- 4484 GONÇALVES, A.D. Peixes venenosos. These, Bahia, 1905.
- 4485 GONÇALVES, A.D. Peixes venenosos da Bahia. Gaz. Med. Bahia 38, 441, 1907.
- 4486 GOT, R. Études sur les glycoprotéines du sérum de congore (*Conger vulgaris*) et de Roussette (*Scyllium stellare*). C.R. Soc. Biol. 159, 2323, 1965.
- 4487 GOTO, T., KISHI, Y. and HIRATA, Y. Structure of the C₈ base, an acid degradation product of tetrodotoxin. Bull. chem. Soc. Jpn. 35, 1244, 1962.
- 4488 GOTO, T., KISHI, Y., TAKAHASHI, S. and HIRATA, Y. The structure of tetrodotoxin. Tetrahedron Lett. 30, 2105, 1963.
- 4489 GOTO, T., KISHI, Y., TAKAHASHI, S. and HIRATA, Y. Further studies on the structure of tetrodotoxin. Tetrahedron Lett. 14, 779, 1964.
- 4490 GOTO, T., KISHI, Y., TAKAHASHI, S. and HIRATA, Y. Tetrodotoxin. Tetrahedron Lett. 21, 2059, 1965.
- 4491 GOTO, T., TAKAHASHI, S., KISHI, Y. and HIRATA, Y. The structure and stereochemistry of tetrodotoxin. Tetrahedron Lett. 30, 2115, 1963.
- 4492 GOTO, T., TAKAHASHI, S., KISHI, Y. and HIRATA, Y. Extraction and purification of tetrodotoxin. J. chem. Soc. Jpn. 85, 508, 1964.
- 4493 GOUNELLE, H. and POINTEAU-POULIGUEN, M. Les intoxications alimentaires après consommation de poisson. Rev. Hyg. méd. Soc. 9, 603, 1961.
- 4494 GOYAL, R.K. and RATTAN, S. Genesis of basal sphincter pressure: effect of tetrodotoxin on lower esophageal sphincter pressure in opossum in vivo. Gastroenterology 71, 62, 1976.

- 4495 GRAHAM, L.O. Poisonous foods. Rept. Calif. Dept. Hlth. 6p., 1953.
- 4496 GRAHAM, S.A. and O'ROKE, E.C. On Your Own. A Manual for Field and Service Men. Univ. Minn. Press: Minneapolis, 1943.
- 4497 GRALL, C. and CLARAC, A. Intoxications et empoisonnements Béri-béri. In, Traité de Pathologie Exotique. Vol. V, 1911.
- 4498 GRANADE, H.R., CHENG, P.C. and DOORENBOS, N.J. Ciguatera I: brine shrimp (*Artemia salina* L.). Larval assay for ciguatera toxins. J. pharm. Sci. 65, 1414, 1976.
- 4499 GREGORY, C.R. Three cases of food poisoning attributed to eating freshly caught fish yellow jacks. U.S. Nav. med. Bull. 23, 316, 1925.
- 4500 GRIMBLE, A. [Sir]. The migrations of a pandanus people. J. Polynes. Soc. (Suppl.) (Memoir 12) 42, 17, 1933.
- 4501 GRINNELL, A.D. Phylogenetic gradation of resistance to tetrodotoxin and saxitoxin in pufferfishes and related fishes. In, Proceedings of the First International Conference on Toxic Dinoflagellate Blooms. LoCicero, V.R. (ed.), Mass. Sci. Tech. Found.: Wakefield, Mass., p. 377, 1975.
- 4502 GRUBB, R. Quelques aspects de la complexité des groupes A B O. Rev. Hematol., Paris 5, 268, 1950.
- 4503 GRUENER, R. and BAUMBACH, N. Muscle insensitivity to tetrodotoxin: induction by d-bungarotoxin and removal by submechanical threshold stimulation. J. Neurobiol. 7, 513, 1976.
- 4504 GRUNDFEST, H. Tetrodotoxin: action on graded responses. Science 156, 1771, 1967.
- 4505 GUBAREFF, P.M. [Description of the poisonous fish fugu.] Med. Pribavl. Spb. 9, 62, 1882.
- 4506 GUDGER, E.W. *Syngnathus barra-cuda*: its morphology, habits, and history. Carnegie Inst. Wash. Publ. 12, 53, 1918.
- 4507 GUDGER, E.W. A new purgative, the oil of the "Castor Oil Fish," *Ruvettus*. Boston Med. Surg. J. 192, 107, 1925.
- 4508 GUDGER, E.W. Poisonous fishes and fish poisonings, with special reference to ciguatera in the West Indies. Am. J. trop. Med. 10, 43, 1930.
- 4509 GUIBÉ, J. Les poissons toxicophores. In, Traité de zoologie. Grasse, P.P. (ed.), Masson & Cie: Paris, Vol. 13, p. 1934, 1958.
- 4510 GUILLAUME, A. Les poissons venimeux. Rev. Sci. 69, 428, 1931.
- 4511 GUILLON, A. Note sur les accidents qu'on observe quelquefois, sous les tropiques, par suite de l'ingestion du poisson. C.R. Acad. Sci. 42, 340, 1856.
- 4512 GUILLON, A. De quelques poissons vulnérants; la pirai la pastenague et l'anguille tremblante. Clinique, Paris 6, 161, 1911.
- 4513 GUILLORY, R.J., RAYNER, M.D. and D'ARRIGO, J.S. Covalent labeling of the tetrodotoxin receptor in excitable membranes. Science 196, 883, 1977.

- 14 GUNTHER, A.C. An Introduction to the Study of Fishes. Adam & Charles Black: Edinburgh, p. 189, 1880.
- 15 GUTTMAN, R. and BARNHILL, R. Effect of low sodium, tetrodotoxin, and temperature variation upon excitation. J. gen. Physiol. 51, 621, 1968.
- 16 HABERMEHL, G. Recent aspects of animal venoms in chemistry and biochemistry. Period. biol. 80 (Suppl.) 5, 1978.
- 17 HAFEMANN, D.R. Binding of radioactive tetrodotoxin to nerve membrane preparations. Biochim. Biophys. Acta 266, 548, 1972.
- 18 HAGGER, L.T. Some problems of food poisoning. Priv. Print.: Los Angeles, 1948.
- 19 HAGIWARA, S. and NAKAJIMA, S. Tetrodotoxin and manganese ion: effects on action potential of the frog heart. Science 149, 1254, 1965.
- 20 HAGIWARA, S. and NAKAJIMA, S. Difference in Na and Ca spikes as examined by application of tetrodotoxin, procain, and manganese ions. J. gen. Physiol. 49, 793, 1966.
- 21 HALSTEAD, B.W. Ichthyotoxism—a neglected medical problem! Med. Arts Sci. 5, 1, 1951.
- 22 HALSTEAD, B.W. Poisonous fish—a medical-military problem. Res. Rev., NAVEXOS P-510, 10, 1951.
- 23 HALSTEAD, B.W. Poisonous fish. J.A.M.A. 149, 1513, 1952.
- 24 HALSTEAD, B.W. Some general considerations of the problem of poisonous fishes and ichthyosarcotoxism. Copeia (1), 31, 1953.
- 4525 HALSTEAD, B.W. Poisonous fishes and fish poisoning. Res. Rev., NAVEXOS P-510, 23, 1953.
- 4526 HALSTEAD, B.W. A note regarding the toxicity of the fishes of the skipjack family, Katsuwonidae. Calif. Fish Game 40, 61, 1954.
- 4527 HALSTEAD, B.W. Animal phyla known to contain poisonous marine animals. In, Venoms. Buckley, E.E. and Porges, N. (eds.), A.A.A.S.: Washington, p. 9, 1956.
- 4528 HALSTEAD, B.W. Current status of research on poisonous fishes and ichthyosarcotoxism. In, Venoms. Buckley, E.E. and Porges, N. (eds.), A.A.A.S.: Washington, p. 29, 1956.
- 4529 HALSTEAD, B.W. Poisonous fishes and their relationship to marine food resources in the Pacific area. Proc. 8th Pacif. Sci. Congr. 3, 321, 1956.
- 4530 HALSTEAD, B.W. Poisonous fishes. Pub. Hlth. Rpt. 73, 302, 1958.
- 4531 HALSTEAD, B.W. Dangerous Marine Animals. Cornell Maritime Press: Cambridge, Md., 1959 (revised 1978).
- 4532 HALSTEAD, B.W. Biotoxications, allergies, and other disorders. In, Fish as Food, Vol. 2, Nutrition, Sanitation and Utilization. Borgstrom, G. (ed.), Academic: N.Y., p. 521, 1962.
- 4533 HALSTEAD, B.W. Fish poisonings—their diagnosis, pharmacology, and treatment. Clin. Pharm. Ther. 5, 615, 1964.
- 4534 HALSTEAD, B.W. Poisonous and Venomous Marine Animals of the World, Vol. 2. Govt. Print. Off.: Washington, 1967.

- 4535 HALSTEAD, B.W. Marine biotoxins: a new source of medicinals. Lloydia 32, 484, 1969.
- 4536 HALSTEAD, B.W. Poisonous and Venomous Marine Animals of the World, Vol. 3, Govt. Print. Off.: Washington, 1970.
- 4537 HALSTEAD, B.W. Toxicity of marine organisms caused by pollutants. In, Marine Pollution and Sea Life. Ruivo, M. (ed.), Fishing News, Ltd.: London, 1972.
- 4538 HALSTEAD, B.W. Poisonous and Venomous Marine Animals of the World. Rev. edit., Darwin Press: Princeton, N.J., 238p., 1978.
- 4539 HALSTEAD, B.W. and BUNKER, N.C. The effect of the commercial canning process upon puffer poison. Calif. Fish Game 39, 219, 1953.
- 4540 HALSTEAD, B.W. and BUNKER, N.C. A survey of the poisonous fishes of the Phoenix Islands. Copeia (1), 1, 1954.
- 4541 HALSTEAD, B.W. and BUNKER, N.C. A survey of the poisonous fishes of Johnston Island. Zoologica 39, 61, 1954.
- 4542 HALSTEAD, B.W. and COX, K.W. An investigation of fish poisoning in Mauritius. Proc. Roy. Soc. Arts Sci., Mauritius 4, 1, 1973.
- 4543 HALSTEAD, B.W. and LIVELY, W.M. Poisonous fishes and ichthyosarcotoxism. U.S. Armed Forces med. J. 5, 157, 1954.
- 4544 HALSTEAD, B.W. and MC LAUGHLIN. Fish poisoning. Life Hlth. 72, 10, 1957.
- 4545 HALSTEAD, B.W. and RALLS, R.J. Results of dialyzing some fish poisons. Science 119, 160, 1954.
- 4546 HALSTEAD, B.W. and RUSSELL, F.E. Toxic marine organisms. In, Handbook of Biological Data. Spector, W.S. (ed.), F.A.S.E.B.: Washington, p. 424, 1956.
- 4547 HALSTEAD, B.W. and SCHALL, D.W. A report on the poisonous fishes captured during the Woodrow G. Krieger Expedition to the Galapagos Islands. In, Essays in the Natural Sciences in Honor of Captain Allan Hancock. Univ. S. Calif. Press: Los Angeles, p. 147, 1955.
- 4548 HALSTEAD, B.W. and SCHALL, D.W. A report on the poisonous fishes captured during the Woodrow G. Krieger Expedition to Cocos Island. Pac. Sci. 10, 103, 1956.
- 4549 HALSTEAD, B.W. and SCHALL, D.W. A report on the poisonous fishes of the Line Islands. Acta Trop. 15, 193, 1958.
- 4550 HALSTEAD, B.W., CARSCALLEN, L.J. and RUSSELL, F.E. Animal toxins. Part II. Marine organisms. In, Biology Data Book. Altman, P.L. and Dittmer, D.S. (eds.), F.A.S.E.B.: Washington, p. 336, 1964.
- 4551 HAMILTON, W. Queries respecting the poisonous properties of fish. Pharm. J. 12, 344, 1853.
- 4552 HANSEN BAY, C.M. and STRICHARTZ, G.R. Saxitoxin binding to sodium channels of rat skeletal muscles. J. Physiol. 300, 89, 1980.
- 4553 HARDY, E. Poisonous and harmful fish. In, World Fisheries Yearbook and Directory. British-Continental Trade Press, Ltd.: London, p. 137, 1950.
- 4554 HARMS, F. and KRUSE, K.P. [Food poisoning by smoked eel.] Arch. Lebensmitt. Hyg. 27, 88, 1976.

- 4555 HARRIS, J.B. and MARSHALL, M.W.
Tetrodotoxin-resistant action potentials in newborn rat muscle. Nature 243, 191, 1973.
- 4556 HARRIS, J.B. and THESLEFF, S.
Studies on tetrodotoxin resistant action potentials in denervated skeletal muscle. Acta Physiol. Scand. 83, 382, 1971.
- 4557 HARRY, R.R. Ichthyological field data of Raroia Atoll, Tuamotu Archipelago. Atoll Res. Bull. 18, 1, 1953.
- 4558 HASHIMOTO, Y. [On the toxicity of a puffer, "nashi-fugu."] Bull. Jpn. Soc. scient. Fish. 16, 43, 1950.
- 4559 HASHIMOTO, Y. [A note on the poison of a barracuda, *Sphyræna picuda* Bloch and Schneider.] Bull. Jpn. Soc. scient. Fish. 21, 1153, 1956.
- 4560 HASHIMOTO, Y. Toxins found in ciguatera fishes in the Ryukyu Islands. S. Pac. Comm. Sem. Ichthyosarcotoxism, Rangiroa, French Polynesia, Sp., 1968.
- 4561 HASHIMOTO, Y. [Marine Toxins.] Univ. Tokyo Press: Tokyo, 1977.
- 4562 HASHIMOTO, Y. Marine Toxins and Other Bioactive Marine Metabolites. Jpn. Sci. Soc.: Tokyo, 369p., 1979.
- 4563 HASHIMOTO, Y. and FUSETANI, N.
A preliminary report on the toxicity of an amberjack, *Seriola aureovittata*. Bull. Jpn. Soc. scient. Fish. 34, 618, 1968.
- 4564 HASHIMOTO, Y. and KAMIYA, H.
Occurrence of a toxic substance in the skin of a sea bass *Pogonoperca punctata*. Toxicon 7, 65, 1969.
- 4565 HASHIMOTO, Y. and KAMIYA, H.
Food chain hypotheses on the origin of marine toxins. Bull. Jpn. Soc. scient. Fish. 36, 425, 1970.
- 4566 HASHIMOTO, Y. and MIGITA, M.
[On a method of quantitative analysis for fugu (puffer) toxin.] Bull. Jpn. Soc. scient. Fish. 16, 341, 1951.
- 4567 HASHIMOTO, Y. and NOGUCHI, T.
Occurrence of a tetrodotoxin-like substance in a goby *Gobius criniger*. Toxicon 9, 79, 1971.
- 4568 HASHIMOTO, Y. and OSHIMA, Y.
Separation of grammistins A, B and C from a soapfish *Pogonoperca punctata*. Toxicon 10, 279, 1972.
- 4569 HASHIMOTO, Y. and YASUMOTO, T.
[A note on ciguatera poisoning in Okinawa and the toxin of a grouper, *Epinephelus fuscoguttatus* Forskål.] Bull. Jpn. Soc. scient. Fish. 31, 452, 1965.
- 4570 HASHIMOTO, Y., FUSETANI, N. and KIMURA, S. A preliminary report of the toxicity of an amberjack, *Seriola aureovittata*. Bull. Jpn. Soc. scient. Fish. 34, 618, 1969.
- 4571 HASHIMOTO, Y., FUSETANI, N. and KIMURA, S. Aluterin: a toxin of filefish, *Alutera scripta*, probably originating from a zoantharian, *Palythoa tuberculosa*. Bull. Jpn. Soc. scient. Fish. 35, 1086, 1969.
- 4572 HASHIMOTO, Y., HOLMAN, M.E. and MC LEAN, A.J. Effect of tetrodotoxin on the electrical activity of the smooth muscle of the vas deferens. Nature 215, 430, 1967.
- 4573 HASHIMOTO, Y., KAWASAKI, M. and HATANO, M. Occurrence of a toxic phospholipid in cabezon roe. Toxicon 14, 141, 1976.

- 4574 HASHIMOTO, Y., KONOSU, S. and YASUMOTO, T. [Investigation on poisonous marine animals in the Ryuku and Amami Islands IV.] Lab. Mar. Biochem. Fac. Agric., Univ. Tokyo, 1967.
- 4575 HASHIMOTO, Y., SHIOMI, K. and AIDA, K. Occurrence of a skin toxin in coral-gobies *Gobiodon* spp. Toxicon **12**, 523, 1974.
- 4576 HASHIMOTO, Y., KAMIYA, H., KINJO, K. and YOSHIDA, C. A note on the toxicity of a chinaman fish. Bull. Jpn. Soc. scient. Fish. **41**, 903, 1975.
- 4577 HASHIMOTO, Y., KONOSU, S., YASUMOTO, T. and KAMIYA, H. [Investigation on toxic marine animals in the Ryukyu and Amami Islands, III. A survey on ciguatera.] Tech. Rept. Lab. Mar. Biochem., Fac. Agric., Univ. Tokyo, 16p., 1967.
- 4578 HASHIMOTO, Y., KONOSU, S., YASUMOTO, T. and KAMIYA, H. Ciguatera in the Ryukyu and Amami Islands. Bull. Jpn. Soc. scient. Fish. **35**, 316, 1969.
- 4579 HASHIMOTO, Y., YASUMOTO, T., KAMIYA, H. and YOSHIDA, T. [Occurrence of ciguatoxin and ciguaterin in ciguatoxic fishes in the Ryukyu and Amami Islands.] Bull. Jpn. Soc. scient. Fish. **35**, 327, 1969.
- 4580 HASIGUTI, M. [On the changes in the striated muscles caused by globe-fish toxin.] Trans. Jpn. Path. Soc. **21**, 678, 1931.
- 4581 HATANO, M. Toxic substance of the roe of northern blenny II. Extraction of toxic lipoprotein, Lipostichaerin. Bull. Fac. Fish. Hokkaido Univ. **20**, 320, 1970.
- 4582 HATANO, M. Toxic substance of the roe of northern blenny III. Isolation and characterization of toxic lipoprotein, Lipostichaerin. Bull. Fac. Fish. Hokkaido Univ. **20**, 329, 1970.
- 4583 HATANO, M. Toxic substance of the roe of northern blenny IV. Relationship between Lipostichaerin and toxic phospholipid. Bull. Fac. Fish. Hokkaido Univ. **21**, 315, 1971.
- 4584 HATANO, M. Toxic substance of the roe of northern blenny VI. Comparison of effects on rats administered with Lipostichaerin and toxic phospholipid. Bull. Fac. Fish. Hokkaido Univ. **21**, 331, 1971.
- 4585 HATANO, M. Toxic substance of the roe of northern blenny VII. Further characterization of lipostichaerin. Bull. Fac. Fish. Hokkaido Univ. **22**, 168, 1971.
- 4586 HATANO, M. Toxic substance of the roe of northern blenny VIII. Partial purification and characterization of toxic phospholipid. Bull. Fac. Fish. Hokkaido Univ. **22**, 177, 1971.
- 4587 HATANO, M. and ARAI, R. Toxic substance of the roe of northern blenny V. Antigenicities of Lipostichaerin and its toxic phospholipid molecule. Bull. Fac. Fish. Hokkaido Univ. **21**, 325, 1971.
- 4588 HATANO, M. and HASHIMOTO, Y. Properties of a toxic phospholipid in the northern blenny roe. Toxicon **12**, 231, 1974.
- 4589 HATANO, M., ZAMA, K., TAKAMA, K., SAKAI, M. and IGARASHI, H. [Toxic substance of the roe of northern blenny I. On the extraction of toxic substance and its chemical properties.] Bull. Fac.

- Fish. Hokkaido Univ. 15, 138, 1964.
- 4590 HAVELKA, B. [The role of bacteria from *Hafnia* genus in the origination of histamine in tunny meat.] Csika. Hyg. 12, 343, 1967.
- 4591 HAYAMA, T. and OGURA, Y. Site of emetic action of tetrodotoxin in dog. J. Pharm. exp. Ther. 139, 94, 1963.
- 4592 HAYASHI, H. and MUTO, K. Ueber Anthemversuche mit einigen Giften. Arch. exp. Path. Pharmac. 47, 209, 1901.
- 4593 HEESTERMAN, J.E. Rapport à propos de l'intoxication d'un jeune Javanais par *Colomesus psittacus* (Bloch and Schneider). Doc. Comm. Caraibe, Kent-House, La Trinidad, 1940.
- 4594 HEIMBECKER, R.O. Ciguatera poisoning—snowbirds beware. (Editorial) Can. med. Assoc. J. 120, 637, 1979.
- 4595 HEISER, V.G. Poisonous fish. Ann. Rept. Bur. Hlth., Philippine Islands, 70p., 1906.
- 4596 HELFRICH, P. A study of the possible relationship between radioactivity and toxicity in fishes from the Central Pacific. US Atomic Energy Comm. TID 1748, 1, 1960.
- 4597 HELFRICH, P. Fish poisoning in the tropical Pacific. Hawaii Mar. Lab., Univ. Hawaii, 16p., 1961.
- 4598 HELFRICH, P. Fish poisoning in the tropical Pacific. U.S. Atomic Energy Comm., Tech. Info. Ser., Publ. TID-5748, 16p., 1961.
- 4599 HELFRICH, P. Fish poisoning in Hawaii. Hawaii med. J. 22, 361, 1963.
- 4600 HELFRICH, P. and BANNER, A.H. Hallucinatory mullet poisoning: a preliminary report. J. trop. Med. (Hyg.) 63, 86, 1960.
- 4601 HELFRICH, P. and BANNER, A.H. Experimental induction of ciguatera toxicity in fish through diet. Nature 197, 1025, 1963.
- 4602 HELFRICH, P. and BANNER, A.H. Ciguatera fish poisoning. II. General patterns of development in the Pacific. B.P. Bishop Mus. Occ. Pap. 23, 371, 1968.
- 4603 HELFRICH, P., PIYAKARNCHANA, T., MILES, P.S. and BANNER, A.H. Ciguatera fish poisoning. I. The ecology of ciguateric reef fishes in the Line Islands. B.P. Bishop Mus. Occ. Pap. 23, 305, 1968.
- 4604 HENDERSON, R. and WANG, J.H. Solubilization of a specific tetrodotoxin-binding component from garfish olfactory nerve membrane. Biochemistry 11, 4565, 1972.
- 4605 HENDERSON, R., RITCHIE, J.M. and STRICHARTZ, G.R. The binding of labeled saxitoxin to the sodium channels in nerve membrane. J. Physiol. (London) 235, 783, 1973.
- 4606 HENDERSON, R., RITCHIE, J.M. and STRICHARTZ, G.R. Evidence that tetrodotoxin and saxitoxin act at a metal cation binding site in the sodium channels of nerve membrane. Proc. natn. Acad. Sci. 71, 3936, 1974.
- 4607 HÉRICOURT, J. and RICHET, C. Action locale du sérum d'anguille. Sérothérapie contre les effets toxiques du sérum d'anguille. C.R. Soc. Biol. 49, 74, 1897.

- 4608 HÉRICOURT, J. and RICHEL, C.
Sérothérapie in vitro dans l'intoxi-
cation par le sang d'anguille.
C.R. Soc. Biol. 49, 367, 1897.
- 4609 HÉRICOURT, J. and RICHEL, C.
Effets lointains des injections de
sérum d'anguille. C.R. Soc. Biol.
50, 137, 1898.
- 4610 HERRE, A.W. Poisonous and worth-
less fishes; an account of the
Philippine plectognaths. Philipp.
J. Sci. 25, 415, 1924.
- 4611 HERRE, A.W. A supplement to poi-
sonous and worthless fishes.
Philipp. J. Sci. 27, 167, 1925.
- 4612 HERRE, A.W. Four new Philippine
fishes. Philipp. J. Sci. 31, 533,
1926.
- 4613 HESS, A.F. and WEINSTOCK, M.
Puffer fish oil; a very potent
antirachitic; its elaboration by
fish deprived of sunlight. Proc.
Soc. exp. Biol. 23, 407, 1926.
- 4614 HESSEL, D.W. Marine biotoxins. II.
The extraction and partial purifi-
cation of ciguatera toxin from
Lutjanus bohar (Forskäl).
Toxicol. appl. Pharmacol. 3, 574,
1961.
- 4615 HESSEL, D.W. Marine biotoxins. III.
The extraction and partial purifi-
cation of ciguatera toxin from
Lutjanus bohar (Forskäl); use of
silicic acid chromatography. In,
Venomous and Poisonous Animals
and Noxious Plants of the Pacific
Area. Keegan, H.L. and Macfar-
lane, W.V. (eds.), Pergamon:
Oxford, p. 203, 1963.
- 4616 HESSEL, D.W., HALSTEAD, B.W.
and PECKHAM, N.H. Marine
biotoxins. I. Ciguatera poison:
some biological and chemical
aspects. Ann. N.Y. Acad. Sci.
90, 788, 1960.
- 4617 HILL, E.S. Two boys poisoned by
toadfishes at Coogee, New South
Wales. Sydney Mail, March 4,
June 3, 1871.
- 4618 HILL, E.S. Fishes of and fishing in
New South Wales. Rept. Roy.
Comm. Fish., New S. Wales,
Appendix D, (14), 20, 1880.
- 4619 HILL, R. On poisonous fishes. Proc.
Sci. Assoc. Trinidad 1 (Pt. 5), 210,
1868.
- 4620 HILL, R. On fish-poisons. Proc. Sci.
Assoc. Trinidad 1, 227, 1869.
- 4621 HILLE, B. The receptor for tetrodo-
toxin and saxitoxin. Structural
hypothesis. Biophys. J. 15, 615,
1975.
- 4622 HILLMUTH, J. and JAMESON, H.
Ichthyology. Two poisoned by
liver of Tetraodon. In, Encyclo-
pedia Britannica. Little, Brown &
Co.: Boston, Vol. 12, p. 331,
1856.
- 4623 HILZHEIMER, M. and HAEMPEL, O.
Handbuch der Biologie der Wir-
beltiere. F. Enke: Stuttgart,
1913.
- 4624 HIRATA, Y. Structure of puffer
toxin. Kagaku 19, 117, 1964.
- 4625 HIROA, T.R. Ethnology of mangar-
eva. B.P. Bishop Mus. Bull. 157,
301, 1938.
- 4626 HIRSCH, J. and AHRENS, E.H. The
separation of complex lipide mix-
tures by the use of silicic acid
chromatography. J. biol. Chem.
233, 311, 1958.
- 4627 HISHIKARI, J. [On poisonous fish in
the south sea islands.] Nippon
Biseibutsugakkai Zasshi 16, 1533,
1921.

- 4628 HIYAMA, Y. [Poisonous fish, knowledge of dissemination of poisonous fish.] Jpn. Mar. Prod. Res. Lab., 24p., 1942.
- 4629 HIYAMA, Y. [Report on the research of poisonous fish in the South Seas.] Nissan Fish. Inst., Odawara, Jpn., 1943.
- 4630 HIYAMA, Y. [Report on the Research on Poisonous Fishes of the South Seas.] Nissan Fish. Exp. Sta., Odawara, Jpn., 137p., 1943; see also U.S. Fish Wildl. Spec. Sci. Rept. (25), 188p., 1950.
- 4631 HOAR, W.S. and RANDALL, D.J. Fish Physiology, Vol. III, Reproduction and Growth. Bioluminescence, Pigments, and Poisons. Academic: N.Y., 485p., 1969.
- 4632 HOFFMAN, W.H. La Ciguatera, die Fischvergiftung von Cuba. Hamburg, Univ. Abhandl. Gebiet Auslandsk. 26, 197, 1927.
- 4633 HOFFMANN, W.H. Los peces venenosos de Cuba y la ciguatera. Rev. Chil. Hist. Nat. 33, 28, 1929.
- 4634 HOFFMANN, W.H. La ciguatera, enfermedad producida por peces venenosos de Cuba. Invest. Prog., Madrid 3, 101, 1929; see also Revista Med., Buenos Aires 6, 212, 1931.
- 4635 HOFFMANN, W.H. and EMBIL, V.A. Observaciones sobre unos casos de ciguatera. Rev. Med. Circ. Habana 33, 844, 1928.
- 4636 HOKAMA, Y., BANNER, A.H. and BOYLAN, D.B. A radioimmunoassay for the detection of ciguatoxin. Toxicon 15, 317, 1977.
- 4637 HOKAMA, Y., OKUBO, C.M., CRIPPS, C., MATSUKAWA, L.A. and KIMURA, L.H. The effect of purified ciguatoxin on mitogen responses of mouse spleen lymphoid cells. Res. Commun. chem. Path. Pharmacol. 29, 397, 1980.
- 4638 HONDA, S. and INAKO, Y. Report of tuna poisoning. Tokyo Iji Shinshi 685, 713, 1891.
- 4639 HORA, S.L. Knowledge of the ancient Hindus concerning fish and fisheries of India. J. Roy. Asiatic Soc. Bengal 14, 7, 1948.
- 4640 HORI, H. [Studies on the histopathology of crystalline tetrodotoxin. I. Observations of the acute toxicity on the mouse.] Ann. Rept. Inst. Food Microbiol., Chiba Univ. 10, 70, 1957.
- 4641 HORI, K., FUSEYANI, N., HASHIMOTO, K., AIDA, K. and RANDALL, J.E. Occurrence of a gram-mistin-like mucous toxin in the clingfish *Diademichthys lineatus*. Toxicon 17, 418, 1979.
- 4642 HORN, R. Tetrodotoxin-resistant divalent action potentials in an axon of *Aplysia*. Brain Res. 133, 177, 1977.
- 4643 HSIANG, N.S. [A new method of treatment of addicts by tetrodotoxin.] J. orient. Med. 30, 639, 1939.
- 4644 HUANG, L.-Y.M., CATERALL, W.A. and EHRENSTEIN, G. Comparison of ionic selectivity of batrachotoxin-activated channels with different tetrodotoxin dissociation constants. J. gen. Physiol. 73, 839, 1979.
- 4645 HUANG, T.F. Effect of tetrodotoxin on experimental arrhythmias. Eur. J. Pharmacol. 26, 77, 1974.
- 4646 HUBBS, C.L. and WICK, A.N. Toxicity of the roe of the cabezon, *Scorpaenichthys marmoratus*. Calif. Fish Game 37, 193, 1951.

- 4647 HUGHES, J.M. Epidemiology of shellfish poisoning in the United States, 1971-1977. In, Toxic Dinoflagellate Blooms. (Proc. 2nd Intern. Conf.), Taylor, D.L. and Seliger, H.H. (eds.), Elsevier/North-Holland: N.Y., vol. 1, p. 23, 1979.
- 4648 HUGHES, J.M. and MERSON, M.H. Fish and shellfish poisoning. N. Engl. J. Med. 295, 1117, 1976.
- 4649 HURTEL, J.M., CHANTEAU, S., DROLLET, J.H. and BAGNIS, R. Culture en milieu artificiel du dinoflagellate responsable de la ciguatera. Rev. intern. Océanogr. Méd. 55, 29, 1979.
- 4650 HUTCHINS, D.E. The moon and poisonous fish. Nature 90, 382, 417, 1912.
- 4651 IGAWA, K. [Effect of liver extracts of Sawara sp. on the mouse. I. Toxic symptoms on the mouse.] Yamaguchi Igaku 7, 741, 1958.
- 4652 IGLESIAS, M.S. [Some comments on fish poisoning.] Rev. med. Veracruzana 4, 82, 1924.
- 4653 IJIMA, T., MOTOMURA, S., TAIRA, N. and HASHIMOTO, K. Selective suppression of neural excitation by tetrodotoxin injected into the canine atrioventricular node artery. J. Pharmacol. exp. Ther. 189, 638, 1974.
- 4654 IMAHASI, T. Über den Einfluss einiger Pharmaka auf die tödliche Vergiftung durch Tetrodotoxin. Okayama Igakkai Zasshi 40, 2452, 1928; see also Chem. Zentralbl. 11, 1321, 1929.
- 4655 INABA, M. [Effects of tetrodotoxin on blood coagulation.] Okayama Igakkai Zasshi 47, 3348, 1935; see also Jpn. J. med. Sci., IV Pharm. 9, 114, 1936.
- 4656 INGEBRETSEN, W.R., JR., FRIEDMAN, W.F. and MAYER, S.E. Specificity of the action of isoproterenol on papillary muscle contractility and cyclic AMP examined by exposure to 22 mM K⁺ tetrodotoxin and receptor blocking agents. Fed. Proc. 36, 956, 1977.
- 4657 INGLETON, G.C. True Patriots All. Angus & Robertson: Sydney, Australia, p. 88, 265, 1952.
- 4658 INOKO, D. [Poison existing in the blood of Anguilla japonica Sieb. s. A. bostoniensis Les.] Tokyo Med. Wschr. 754, 1, 1892.
- 4659 INOKO, Y. [On the poison in fishes.] Chugai Iji Shimpō 300, 1, 1892.
- 4660 INOUE, S. [Influence of tetrodotoxin on micturation and especially on enuresis nocturna.] Jpn. Zschr. Dermat. Urol. 13, 79, 1913; see also Zentralbl. Biochem. Biophys. 15, 284, 1913 and Chem. Abstr. 7, 3795, 1913.
- 4661 INOUE, S. and KINOSHITA, T. [Clinical experiments with Sawara's tetrodotoxin.] Jpn. J. Dermat. Urol. 11, 1269, 1911.
- 4662 ISHIHARA, F. [The physiological study of puffer poison.] Tokyo Igakkai Zasshi 31, 276, 717, 1917.
- 4663 ISHIHARA, F. Über die physiologischen Wirkungen des Fugutoxins. Mitt. Med. Fak. Univ. Tokyo 20, 375, 1918.
- 4664 ISHIHARA, F. Studien über das Fugutoxin. Arch. exp. Path. Pharm. 103, 209, 1924.
- 4665 ISHIMA, Y. [The effect of tetrodotoxin and sodium substitution on the action potential in the course of development of the embryonic chicken heart.] Proc. Jpn. Acad. 44, 170, 1968.

- 4666 ISHIMA, Y. and WAKU, K. Phospholipid analysis of the chick ventricles in the early stages of development when their excitability changes in tetrodotoxin or in sodium substitute media. Comp. Biochem. Physiol. **61C**, 283, 1978.
- 4667 ITAKURA, T. [Pharmacological reaction of tetrodotoxin.] Mitt. Med. Ges. Tokyo **31**, 394, 1917.
- 4668 ITAKURA, T. Zur Kenntnis der pharmakologischen Wirkung des Tetrodotoxins. Mitt. Med. Fak. Univ. Tokyo **17**, 455, 1917; see also Physiol. Abstr. **3**, 61, 1918.
- 4669 ITO, J. [A review of articles on fugutoxin.] Zschr. Tokio Med. Ges. **3**, 533, 1889.
- 4670 ITOKAWA, Y. and COOPER, J.R. Thiamine release from nerve membrane by tetrodotoxin. Science **166**, 759, 1969.
- 4671 IWAKAWA, K. and KIMURE, S. Experimentelle Untersuchungen über die Wirkung des Tetrodotoxins (Fugugift). Arch. exp. Path. Pharm. **93**, 305, 1922.
- 4672 IWAMOTO, M. [Pharmacology of crystalline tetrodotoxin.] Igaku Kenkyu **25**, 832, 1955.
- 4673 IZUMIKAWA, E. Über die histochemische Untersuchung der Stockel und Hautdrüsenzellen bei den sog. Giftfischen. Yokohama med. Bull. **11**, 501, 1960.
- 4674 JACKSON, D.B. Effect of tetrodotoxin on electrically-induced release of autonomic mediators in the rabbit sinoatrial node. Life Sci. **9**, 383, 1970.
- 4675 JACQUES, Y., FOSSET, M. and LAZDUNSKI, M. Molecular properties of the action potential Na⁺ ionophore in neuroblastoma cells. J. biol. Chem. **253**, 7383, 1978.
- 4676 JAGGARD, P.J. and EVANS, M.H. Administration of tetrodotoxin and saxitoxin into the lateral cerebral ventricle of the rabbit. J. Neuropharmacol. **14**, 345, 1975.
- 4677 JAIMOVICH, E., VENOSA, R.A., SHRAGER, P. and HOROWICZ, P. Density and distribution of tetrodotoxin receptors in normal and detubulated frog sartorius muscle. J. gen. Physiol. **67**, 399, 1976.
- 4678 JAKES, R. A substance from eel serum producing slow contractions. Nature **175**, 212, 1955.
- 4679 JENSEN, D. Eptatretin: a potent cardioactive agent from the branchial heart of the Pacific hagfish, Eptatretus stoutii. Comp. Biochem. Physiol. **10**, 129, 1963.
- 4680 JOHANSSON, P. and THESLEFF, S. A comparison of the effects of phospholipase C and tetrodotoxin on spike generation in muscle. Eur. J. Pharmacol. **4**, 347, 1968.
- 4681 JOHNSON, B. Toad fish gourmet food in Japan. Sun Herald (Aust.), p. 23, Sept. 5, 1965.
- 4682 JOHNSTON, D.G. and BURGER, W.D. Injury and disease of scuba and skin divers. Postgrad. Med. **49**, 134, 1971.
- 4683 JONES, H.R. Acute ataxia associated with ciguatera-type (grouper) tropical fish poisoning. Ann. Neurol. **7**, 491, 1980.
- 4684 JONES, H.W. Index-catalogue of the library of the Surgeon-General's Office, U.S. Army. (4), **5**, 1006, 1940.
- 4685 JONES, J.D. Observations on fish poisoning in Mauritius. Proc.

- Soc. Arts Sci. Mauritius 1, 367, 1936.
- 4686 JONES, S. On some deaths due to fish poisoning (ichthyosarcotoxism) in India. Indian med. J. 44, 353, 1956.
- 4687 JORDAN, D.S. A Guide to the Study of Fishes. 2 vols., Henry Holt & Co.: N.Y., 1905.
- 4688 JORDAN, D.S. Poisonous fishes in Samoa. Am. Natur. 63, 382, 1929.
- 4689 JOUAN, H. Notes sur quelques animaux observés à la Nouvelle-Calédonie pendant les années 1861 et 1862. Mém. Soc. Imp. Sci. Nat. Cherbourg 9, 89 (Suppl.) 177, 1863.
- 4690 JOUAN, H. Note sur quelques poissons nuisibles du Japon. Mém. Soc. Imp. Sci. Nat. Cherbourg 13, 142, 1867.
- 4691 JOYEUX, C. Précis de médecine coloniale. 3rd edit., Masson & Cie: Paris, 1058p., 1944.
- 4692 JUAN, H. and LEMBECK, F. Inhibition of the action of bradykinin and acetylcholine on paravascular pain receptors by tetrodotoxin and procaine. N.-S. Arch. exp. Path. Pharmacol. 290, 389, 1975.
- 4693 JUNGE, D. and GEDULDIG, D. Sensitivity of spike overshoot in Aplysia giant neurons to tetrodotoxin, cobalt, and TEA. Physiologist 10, 215, 1967.
- 4694 KABUKI, E. Über die Wirkung des Tetrodotoxins auf Blutdruck und Atmung bei Leberschädigung. Jpn. J. med. Sci., IV Pharmacol. 8, 109, 1935.
- 4695 KABUKI, E. Über die Tetrodotoxin-durchströmung der Leber. Mitt. med. Ges. Chiba 15, 2538, 1937.
- 4696 KAEMPFFER, E. The History of Japan. London, vol. 1, p. 134, 1727.
- 4697 KAEUFFER, H., BAGNIS, R., CLAV-ERIE, A. and VERNOUX, J.P. Comparative immunological study of protein extracts of poisonous and non-poisonous fishes. Bull. Soc. Pathol. exot. 68, 426, 1975.
- 4698 KAEUFFER, H., BAGNIS, R., CHAN-TEAU, S. et al. Hypersensitivity in ciguatera ichthyosarcotoxism: an experimental model. Bull. Soc. Pathol. exot. 69, 446, 1976.
- 4699 KAKISAWA, H., OKUMURA, Y. and HIRATA, Y. [Globefish poison. Its extraction and structure.] J. chem. Soc. Jpn. 80, 1483, 1959.
- 4700 KALLAI-SANFACON, M.A. and REED, J.K. Characterization of the lipid and polypeptide components of a tetrodotoxin binding membrane fraction from Electrophorus electricus. J. membrane Biol. 54, 173, 1980.
- 4701 KAMINISHI, K. [Experimental study of the principles of emergency treatment against puffer poison.] Nippon Igaku oyobi Kenko Hoken 3296, 13, 1942.
- 4702 KAMIYA, H. and HASHIMOTO, Y. Purification of ciguaterin from the liver of the red snapper Lutjanus bohar. Bull. Jpn. Soc. scient. Fish. 39, 1183, 1973.
- 4703 KAMIYA, H., HATANO, M. and HASHIMOTO, Y. Screening of ichthyotoxin. Bull. Jpn. Soc. scient. Fish. 43, 1461, 1977.
- 4704 KANAI, T. [Demonstration of case of paralysis agitans treated with hepatotoxin.] Osaka med. Assoc. Mag. 12, 332, 1913.

- 4705 KANAYAMA, S. [Purification and several chemical characteristics of puffer poison.] Fukuoka Acta med. 36, 395, 1943.
- 4706 KANNO, K. [Occurrence of toxins resembling ciguatoxin, scaritoxin and maitotoxin in a turban shell] Nihon Suisan-Gakki Shi 42, 1399, 1976.
- 4707 KANNO, M. and SHIMADA, Y. Tetrodotoxin-resistant electric activity in chick skeletal muscle cells differentiated in vitro. J. cell. Physiol. 81, 85, 1973.
- 4708 KAO, C.Y. Tetrodotoxin: mechanism of action. Science 144, 319, 1964.
- 4709 KAO, C.Y. Tetrodotoxin, saxitoxin and their significance in the study of excitation phenomena. Pharmacol. Rev. 18, 997, 1966.
- 4710 KAO, C.Y. Comparison of the biological actions of tetrodotoxin and saxitoxin. In, Animal Toxins. Russell, F.E. and Saunders, P.R. (eds.), Pergamon: Oxford, p. 109, 1967; see also Toxicon 4, 295, 1967 (Abst.).
- 4711 KAO, C.Y. Pharmacology of tetrodotoxin and saxitoxin. Fed. Proc. 31, 1117, 1972.
- 4712 KAO, C.Y. Cardiovascular actions of saxitoxin. Proceedings of the First International Conference on Toxic Dinoflagellate Blooms. LoCicero, V.R. (ed.), Mass. Sci. Tech. Found.: Wakefield, Mass., p. 347, 1975.
- 4713 KAO, C.Y. and FUHRMAN, F.A. Pharmacological studies on tarichatoxin, a potent neurotoxin. J. Pharm. exp. Ther. 140, 31, 1963.
- 4714 KAO, C.Y. and FUHRMAN, F.A. Differentiation of the actions of tetrodotoxin and saxitoxin. Toxicon 5, 25, 1967.
- 4715 KAO, C.Y. and NISHIYAMA, A. Actions of saxitoxin on peripheral neuromuscular systems. J. Physiol. 180, 50, 1965.
- 4716 KAO, C.Y. and NISHIYAMA, A. Similarity of the actions of tetrodotoxin and saxitoxin on the excitable membrane. Fed. Proc. 24, 649, 1965.
- 4717 KAO, C.Y. and YEOH, P.N. Interactions of chiriquitoxin and tetrodotoxin with muscle fiber membrane. J. Physiol. 272, 54, 1977.
- 4718 KAO, C.Y. and YEOH, P.N. Different receptors for saxitoxin and tetrodotoxin. J. Physiol. 284, 88, 1978.
- 4719 KAO, C.Y., NAGASAWA, J., SPIEGELSTEIN, M.Y. and CHA, Y.N. Vasodilatory effects of tetrodotoxin in the cat. J. Pharm. exp. Ther. 178, 110, 1971.
- 4720 KAO, C.Y., SUZUKI, T., KLEINHAUS, A.L. and SIEGMANN, M.J. Vasomotor and respiratory depressant actions of tetrodotoxin and saxitoxin. Arch. intern. Pharmacodyn. 165, 438, 1967.
- 4721 KARIYA, S. Experimentelle Untersuchungen über das Tetrodongift. Mitt. med. Ges. Tokio 28, 1, 1914.
- 4722 KARLSSON, E. Chemistry of some potent animal toxins. Experientia 29, 1319, 1973.
- 4723 KASK, J.L. Some poisonous fishes found in the South Pacific. Newsl. Calif. Acad. Sci. 55, 3, 1944.
- 4724 KATAGI, R. [Influence of some stimulating drugs on the action of tetrodotoxin on skeletal muscle.]

Okayama Igakkai Zasshi 39, 1869, 1927.

4725 KATSUKI, Y., YANAGISAWA, K. and KANZAKI, J. Tetraethyl-ammonium and tetrodotoxin: effects on cochlear potentials. Science 151, 1544, 1966.

4726 KAWABATA, T. Fish-borne food poisoning in Japan. In, Fish as Food. Borgstrom, G. (ed.), Academic: N.Y., Vol. 2, p. 467, 1962.

4727 KAWABATA, T. [Problems involved in the research on fish and shell-fish poisonings.] Jpn. J. med. Sci. Biol. 15, 141, 1962.

4728 KAWABATA, T. Food poisoning in Japan caused by poisonous fish. Nat. Inst. Hlth., Dept. Food Res., Shinagawa-ku, Tokyo, 1971.

4729 KAWABATA, T., HALSTEAD, B.W. and JUDEFIND, T.F. A report of a series of recent outbreaks of unusual cephalopod and fish intoxications in Japan. Am. J. trop. Med. Hyg. 6, 935, 1957.

4730 KAWABATA, T., ISHIZAKA, K. and MIURA, T. [Studies on the allergy-like food poisoning associated with putrefaction of marine products. I. Episodes of allergy-like food poisoning caused by "samma sakuraboshi" (dried seasoned saury) and other kinds of marine products.] Jpn. J. med. Sci. 8, 487, 1955.

4731 KAWABATA, T., ISHIZAKA, K. and MIURA, T. [Studies on the allergy-like food poisoning associated with putrefaction of marine products. II. Separation of causative substance and some of its chemical characteristics.] Jpn. J. med. Sci. Biol. 8, 503, 1955.

4732 KAWABATA, T., ISHIZAKA, K. and MIURA, T. [Studies on the allergy-like food poisoning

associated with putrefaction of marine products. III. Physiological and pharmacological action of "saurine," a vagus-stimulant of unknown structure recently isolated by the authors, and its characteristics in developing allergy-like symptoms.] Jpn. J. med. Sci. Biol. 8, 521, 1955.

4733 KAWABATA, T., ISHIZAKA, K. and MIURA, T. [Studies on the food poisoning associated with putrefaction of marine products. II.] Bull. Jpn. Soc. scient. Fish. 21, 341, 1955.

4734 KAWABATA, T., ISHIZAKA, K. and MIURA, T. [Studies on the food poisoning associated with putrefaction of marine products. III. Physiological and pharmacological properties of newly isolated vagus stimulant, named "Saurine."] Bull. Jpn. Soc. scient. Fish. 21, 347, 1955.

4735 KAWABATA, T., ISHIZAKA, K. and MIURA, T. Studies on the food poisoning associated with putrefaction of marine products. IV. Epidemiology and the causative agents of the outbreaks of allergy-like food poisoning caused by cooked frigate-mackerel meat at Kawasaki and by "samma sakuraboshi" at Hammamatsu. Bull. Jpn. Soc. scient. Fish. 21, 1167, 1955.

4736 KAWABATA, T., ISHIZAKA, K., MIURA, T. and SASAKI, T. [Studies on the food poisoning associated with putrefaction of marine products. VII. An outbreak of allergy-like food poisoning caused by "Sashimi" of *Parathunnus mebachi* and the isolation of causative bacteria.] Bull. Jpn. Soc. scient. Fish. 22, 41, 1956.

4737 KAWAKAMI, K. and YAMAMOTO, I. Toxic components of fish-liver

- oil. Bull. Inst. phys. chem. Res. 13, 1524, 1934.
- 4738 KAWAKUBO, Y. and KIKUCHI, K. [Testing fish poisons on animals and report of a human case of fish poisoning in the South Seas.] Kaigun Igakukai Zasshi 31, 30, 1942.
- 4739 KAWAMURA, M. [Studies on tetrodotoxin.] Ann. Rept. Takamine Lab. 4, 49, 1952.
- 4740 KAWAMURA, M. Untersuchungen der Eierstockextrakte von Kugelfischen. XII. Über tetrodotoxin. Chem. pharm. Bull. Jpn. 8, 262, 1960.
- 4741 KAYAMA, M. and IKEDA, Y. [Studies on the lipids of micronektonic fishes caught in Sagami and Suruga Bays, with special reference to their wax esters.] Yukagaku 24, 435, 1975.
- 4742 KAYAMA, M., HORII, I. and IKEDA, Y. [Studies on fish roe lipids, especially on mullet roe wax esters.] Yukagaku 23, 290, 1974.
- 4743 KERGUELEN, Y.J., DE. Voyage dans l'Inde et aux Terres Australes en 1771-1772. (Unpubl. ms. in Hydrographic Dept., Paris and copy in Mitchell Library, Sydney, folio 262, 1772).
- 4744 KERR, W.M. A note on the case of fish poisoning in Guam. U.S. Nav. med. Bull. 6, 401, 1912.
- 4745 KEW, C.K., MING, L.K., CHENG, K.K. and LI, K.M. The hypotensive action of puffer fish toxin. J. Path. Bact. 92, 471, 1966.
- 4746 KEYNES, R.D., BEZANILLA, F., ROJAS, E. and TAYLOR, R.E. The rate of action of tetrodotoxin on sodium conductance in the squid giant axon. Phil. Trans. Roy. Soc. London 270, 365, 1975.
- 4747 KHELENTZOS, C.T. Seventeen cases of poisoning due to ingestion of an eel, Gymnothorax flavimarginatus. Am. J. trop. Med. 30, 785, 1950.
- 4748 KHODOROV, B.I. and VORNOVICKII, G.E. Differences in the mechanism of depressing action of tetrodotoxin and novocaine on skeletal muscular fibres of the frog. Bull. exp. Biol. Med. U.S.S.R. 64, 34, 1967.
- 4749 KIDOKORO, Y., GRINNELL, A.D. and EATON, D.C. Tetrodotoxin sensitivity of muscle action potentials in pufferfishes and related fishes. J. comp. Physiol. 89, 59, 1974.
- 4750 KIKKAWA, T. and YAMASAKI, S. [Clinical application of Tahara's tetrodotoxin.] Chugai Iji Shimpō 753, 1027, 1911.
- 4751 KIM, R. Flushing syndrome due to mahimahi (Scombroid fish) poisoning. Arch. Derm. 115, 963, 1979.
- 4752 KIM, Y.H., BROWN, G.B., MOSHER, H.S. and FUHRMAN, F.A. Tetrodotoxin: occurrence in Atelopus frogs of Costa Rica. Science 189, 151, 1975.
- 4753 KIMATA, M. The histamine problem. In, Fish as Food. Borgstrom, G. (ed.), Academic: N.Y., vol. I, p. 329, 1961.
- 4754 KIMURA, H. Lipids of the castor oil fish, Ruvettus tydemani. J. chem. Ind. Jpn. 29, 620, 1926.
- 4755 KIMURA, L., JOYO, B., SHIRAKI, K., SASAKI, R. and HOKAMA, Y. Detection of ciguatera toxin in fish tissues by radio immunoassay. Fed. Proc. 39, Abst. 4604, 1980.

- 4756 KIMURA, S. Zur Kenntnis der Wirkung des Tetrodongiftes. Tohoku J. exp. Med. 9, 41, 1927.
- 4757 KINGHORN, A.D., JAWAD, F.H. and DOORENBOS, N.J. Structure-activity relationship of grayanotoxin derivatives using a tetrodotoxin-antagonized spasmodic response of brine shrimp larvae (Artemia salina). Toxicon 16, 227, 1978.
- 4758 KIRPEKAR, S.M. and PRAT, J.C. Effect of tetraethylammonium on noradrenaline release from cat spleen treated with tetrodotoxin. Nature 276, 623, 1978.
- 4759 KISHI, Y. Synthetic study of pufferfish poison, tetrodotoxin. J. syn. org. Chem. Jpn. 32, 355, 1974.
- 4760 KISHI, Y., FUKUYAMA, T., ARATANI, M. et al. Synthetic studies on tetrodotoxin and related compounds. IV. Steriospecific total synthesis of DL-tetrodotoxin. J. Am. chem. Soc. 94, 9219, 1972.
- 4761 KITSON, A. Captain James Cook, R.N., F.R.S. "The Circumnavigator." John Murray: London, p. 289, 298, 1907.
- 4762 KLEINHAUS, A.L. and PRICHARD, J.W. Sodium dependent tetrodotoxin-resistant action potentials in a leech neuron. Brain Res. 102, 368, 1976.
- 4763 KNICKELBEIN, R.G. and ROSENBERG, P. Differential phospholipid hydrolysis by phospholipase C in sarcolemma of muscles with calcium of sodium generated action potentials. Toxicon 18, 71, 1980.
- 4764 KNOX (KNOCH), G. [On poisonous fishes and means for prevention of cases of poisoning by them.] Vo med. Zh. Sob. 161, 399, 1888; 162, 1, 147, 121, 1883.
- 4765 KNOX (KNOCH), G. [On Poisonous Fishes and on the Means to Prevent Poisoning by Them.] J. Treu: St. Petersburg, 1888.
- 4766 KOBAYASHI, T. Über den Einfluss des Fugugiftes auf die Hirngefäße. Jpn. J. med. Sci., IV Pharm. 12, 68, 1944.
- 4767 KOBERT, R. Über Giftfische und Fischgifte. Ferdinand Enke: Stuttgart, 36p., 1905.
- 4768 KOBERT, R. Ueber Giftfische und Fischgifte. Med. Woche 19, 199; 20, 209; 21, 221, 1902.
- 4769 KOBERT, R. Kompodium der praktischen Toxikologie, zum Gebrauche für Ärzte, Studierende und Medizinalbeamte. Ferdinand Enke: Stuttgart, 190p., 1912.
- 4770 KOCH, T. Ueber das Fischgift; Bericht an das medizinologische Departement des Ministeriums des Innern. Med. Ztg. Russlands 14, 337, 1857.
- 4771 KOFETSU, K. and NISHI, S. Effects of tetrodotoxin on the action potential in Na-free media. Life Sci. 5, 2341, 1966.
- 4772 KOHL, H. Kann die Leber der Fleischfresser giftig sein? Z. Fleisch u. Milchhyg. 40, 45, 1929.
- 4773 KOHLER, F. Muschel- und Fischvergiftung. Fortschr. Med. 51, 291, 1933.
- 4774 KOIZUMI, K., LEVINE, D.G. and BROOKS, C. Effect of tetrodotoxin (puffer fish toxin) on the central nervous system. Neurology 17, 395, 1967.
- 4775 KONOSU, S., INOUE, A., NOGUCHI, T. and HASHIMOTO, Y. Comparison of crab toxin with saxitoxin and tetrodotoxin. Toxicon 6, 113, 1968.

- 4776 KONSTANSOFF, S.W. and MANOIL-OFF, E.O. Ueber die Einwirkung der Verdauungsfermente auf das sogenannte Fischgift. Wien. Klin. Wschr. 27, 883, 1914; see also Russ. Vrach. 13, 22, 1914.
- 4777 KONSTANSOV, S.V. [Fish Poison.] St. Petersburg, 192p., 1915.
- 4778 KOPACZEWSKI, W. Influence des radiations lumineuses sur la toxicité du sérum de la murène. C.R. Soc. Biol. 80, 884, 1917.
- 4779 KOPACZEWSKI, W. Essais d'immunisation contre la toxicité du sérum de la murène. C.R. Soc. Biol. 80, 886, 1917.
- 4780 KOPACZEWSKI, W. Recherches sur le sérum de la murène (Muraena helena L.). I. La toxicité du sérum de murène. C.R. Acad. Sci. 164, 962, 1917.
- 4781 KOPACZEWSKI, W. Recherches sur le sérum de la murène (Muraena helena L.). II. L'action physiologique du sérum. C.R. Acad. Sci. 165, 37, 1917.
- 4782 KOPACZEWSKI, W. Sur le venin de la murène (Muraena helena L.). C.R. Acad. Sci. 165, 513, 1917.
- 4783 KOPACZEWSKI, W. Recherches sur le sérum de la murène (Muraena helena L.). III. La toxicité et les propriétés physiques du sérum. C.R. Acad. Sci. 165, 600, 1917.
- 4784 KOPACZEWSKI, W. Recherches sur le sérum de la murène (Muraena helena L.). IV. L'équilibre moléculaire et la toxicité du sérum. C.R. Acad. Sci. 165, 725, 1917.
- 4785 KOPACZEWSKI, W. Recherches sur le sérum de la murène (Muraena helena L.). V. Sur le mécanisme de la toxicité du sérum de murène. C.R. Acad. Sci. 165, 803, 1917.
- 4786 KOPACZEWSKI, W. Recherches sur le sérum de la murène (Muraena helena L.). Ann. Inst. Pasteur 32, 584, 1918.
- 4787 KOPIA, G.A. and CONDOURIS, G.A. Sympathetic nerve blockade by tetrodotoxin (TTX), and norepinephrine (NE) release by guanethidine (G). Fed. Proc. 39, 856, 1980.
- 4788 KORNALIK, F. [Animal Toxins.] State Public Health: Prague, 288p., 1967.
- 4789 KOSAKI, T.I. Marine toxins from the Pacific—ciguatoxin: not an in vivo anticholinesterase. Can. Fish. Res. Bd. J. 26, 2208, 1969.
- 4790 KOSAKI, T.I. and ANDERSON, H.H. Marine toxins from the Pacific—IV. Pharmacology of ciguatoxin(s). Toxicon 6, 55, 1968.
- 4791 KOSAKI, T. and STEPHENS, B.J. Pupillary meiosis to ciguatoxin(s) from Gymnothorax javanicus. Fed. Proc. 26, 322, 1967 (Abst.).
- 4792 KOSAKI, T.I., STEPHENS, B.J. and ANDERSON, H.H. Marine toxins from the Pacific III. Comparative bio-assay of ciguatoxin(s) in the mouse and chicken. Proc. west. Pharmacol. Soc. 11, 126, 1968.
- 4793 KOTAKI, Y. Occurrence of saxitoxin in a green turban shell. Nihon Suisan-Gakkai Shi 43, 207, 1977.
- 4794 KRUEGER, B.K., RATZLAFF, R.W., STRICHARTZ, G.R. and BLAUSTEIN, M.P. Saxitoxin binding to synaptosomes membranes and solubilized binding sites from rat brain. J. membrane Biol. 50, 287, 1979.
- 4795 KRUGER, P. Über die Verdauungsfermente der Wirbellosen. Sitzber. Deut. Akad. Wiss. Berlin 26, 548, 1929.

- 796 KROGH, P. Measurements of paralytic shellfish poisons. A review of biological and chemical procedures. Nord. Vet. Med. **31**, 302, 1979.
- 797 KUDAKA, K. [A preliminary investigation of the poisonous fish of the Ryukyu Islands.] Ann. Rept. Ryukyu Fish. Inst., p. 95, 1960.
- 798 KUGA, T. The actions of tetrodotoxin on neuromuscular transmission. Folia Pharmacol. Jpn. **55**, 1257, 1958.
- 799 KUMADA, T. [Illustrations of Edible Aquatic Fauna of the South Seas.] Odawara, Japan, 1941.
- 800 KUMURA, S. Zur Kenntnis der Wirkung des Tetrodointoxins. Tohoku J. exp. Med. **9**, 41, 1927.
- 801 KUNISHO, K. [The reaction of curare, tetrodotoxin, strychnine, veratrin, and sodium nitrate on the peripheral blood vessels.] Okayama Igakukai Zasshi **47**, 531, 1934; see also Jpn. J. med. Sci., IV Pharm. **131**, 1935.
- 802 KURIAKI, K. and NAGANO, H. Susceptibility of certain enzymes of the central nervous system to tetrodotoxin. Br. J. Pharmacol. **12**, 393, 1957.
- 803 KURIAKI, K. and WADA, I. [Effect of tetrodotoxin on mammalian neuromuscular system.] Jpn. J. Pharmacol. **7**, 35, 1957.
- 804 KURIAKI, K. and WADA, I. [Effect of tetrodotoxin, epinephrine and norepinephrine on glucose uptake of the rat diaphragm.] Jpn. J. Pharmacol. **8**, 170, 1959.
- 805 KURIAKI, K., HIYOSHI, K. and MACHIZUKI, Y. Effect of fugu poison on reflex activities. Jpn. J. Pharmacol. **6**, 37, 1956.
- 4806 KUROMI, H., GONOI, T. and H/SEGAWA, S. Partial purification and characterization of neurotrophic substance affecting tetrodotoxin sensitivity of organ-cultured mouse muscle. Brain Res. **175**, 109, 1979.
- 4807 KUSANO, K., LIVENGOD, D.R. and WERMAN, R. Tetraethylammonium ions: effect of presynaptic injection on synaptic transmission. Science **155**, 1257, 1967.
- 4808 KUZNETSOV, N. [On Poisonous Fishes.] Vestnik rybopromyshlennosti: St. Petersburg, p. 8-9, 294, 1891.
- 4809 LAGLER, K.F., BARDACH, J.E. and MILLER, R.R. Ichthyology. Wiley Inc.: N.Y., 545p., 1962.
- 4810 LAGRAULET, J. Ciguatera in the Maldive Islands. Bull. Soc. Pathol. exot. **68**, 511, 1975.
- 4811 LAIGRE, J. Progress in research on fish poisoning. S. Pac. Comm., Fish. Newsl. **19**, 22, 1979.
- 4812 LALONE, R.C., DE VILLEZ, E.J. and LARSON, E. An assay of the toxicity of the Atlantic puffer fish, Spheroide maculatus. Toxicol. **1**, 159, 1963.
- 4813 LAND, B.R., SASTRE, A. and PODLESKI, T.R. Tetrodotoxin-sensitive and insensitive action potential in myotubes. J. cell. Physiol. **82**, 497, 1973.
- 4814 LANE, C.E. Toxins of marine origin. Ann. Rev. Pharmacol. **8**, 409, 1968.
- 4815 LANG, O. Fish poisoning and its prevention. U.S. Fish. Wildl. Serv., 1945.
- 4816 LARSON, E. and RIVAS, L.R. Barracuda (Sphyræna barracuda) poisoning. Fed. Proc. **21**, 36, 1962.

- 4817 LARSEN, N.P. Fish poisoning. Queen's Hosp. Bull. 2, 1, 1925.
- 4818 LARSEN, N.P. Tetrodon poisoning in Hawaii. Proc. 6th Pac. Sci. Congr., Berkeley 5, 417, 1942.
- 4819 LARSON, E. and RIVAS, L.R. Ciguatera poisoning from barracuda. Q. J. Fla. Acad. Sci. 28, 173, 1965.
- 4820 LARSON, E. and ROTHMAN, L. Ciguatera poisoning by the horse-eye jack, Caranx latus, a carangid fish from the tropical Atlantic. Toxicon 5, 121, 1967.
- 4821 LARSON, E., GROSSMAN, J. and GOLIN, S. Causes of and antidotes for puffer fish toxicity. Fed. Proc. 26, 321, 1967.
- 4822 LARSON, E., LALONE, R.C. and DE VILLEZ, E.J. Some physiological effects of puffer fish (Spheroides maculatus) extracts. Pharmacologist 4, 160, 1962.
- 4823 LARSON, E., LALONE, R.C. and RIVAS, L.R. Comparative toxicity of the Atlantic puffer fishes of the genera Spheroides, Lactophrys, Lagocephalus, and Chilomycterus. Fed. Proc. 19, 388, 1960.
- 4824 LARSON, E., LALONE, R.C., DE VILLEZ, E.J. and SIMAN, R., JR. Physiological and pharmacological studies on extracts of the Western Atlantic puffer Sphaeroides maculatus. In, Animal Toxins. Russell, F.E. and Saunders, P.R. (eds.), Pergamon: Oxford, p. 187; 1967; see also Toxicon 4, 298, 1967.
- 4825 LARSON, E., RIVAS, L.R., LALONE, R.C. and COWARD, S. Toxicology of the western Atlantic puffer fishes of the genus Spheroides. Pharmacologist 1, 70, 1959.
- 4826 LAWRENCE, D.N., ENRIQUEZ, M.B., LUMISH, R.M. and MACEO, A. Ciguatera fish poisoning in Miami. J.A.M.A. 244, 254, 1980.
- 4827 LEA, A.M. The poisonous and stinging animals of Tasmania. Tasmanian Mail, Nov., 1903.
- 4828 LEBER, A. Über Tetrodonvergiftung. In, Arb. u. Tropenkrankh. Hamburg, p. 641, 1927.
- 4829 LEDDA, F., MANTELLI, L. and MUGELLI, A. Blockade by burimamide of the restorative effect of histamine in tetrodotoxin-treated heart preparations. Br. J. Pharmacol. 57, 247, 1976.
- 4830 LE DOUARIN, G., RENAUD, J.F., RENAUD, D. and CORABOEUF, E. Influence of insulin on sensitivity to tetrodotoxin of isolated chick embryo heart cells in culture. J. molec. cell. Cardiol. 6, 523, 1974.
- 4831 LEE, C. Fish poisoning with particular reference to ciguatera. J. trop. Med. Hyg. 83, 93, 1980.
- 4832 LEE, K.S., AKAIKE, N. and BROWN, A.M. Trypsin inhibits the action of tetrodotoxin on neurones. Nature 265, 751, 1977.
- 4833 LEE, R.K.C. Regulations pertaining to marine and fresh water life that is toxic or dangerous to man. Pub. Hlth. Regs., Terr. Hawaii, 2nd Amend. to Chap. 4, Sect. 3, 1954.
- 4834 LEE, R.K.C. and PANG, H.Q. An outbreak of fish poisoning in Honolulu, Hawaii. Hawaii med. J. 4, 129, 1945.
- 4835 LEE, R.K.C. and PANG, H.Q. Ichthyotoxism—fish poisoning: a report and a review. Am. J. trop. Med. 25, 281, 1945.

- 4836 LEGELEUX, G. Contribution à l'étude des poissons toxicophores. Imprimerie Douladoure: Toulouse, 124p., 1965.
- 4837 LEGROUX, R.D., BOVET, D. and LEVADITI, J.C. Présence d'histamine dans la chair d'un thon responsable d'une intoxication collective. Ann. Inst. Pasteur 73, 101, 1947.
- 4838 LEGROUX, R., LEVADITI, J.C., BOUDIN, G. and BOVET, D. A propos des intoxications histaminiques collectives d'origine alimentaire. Presse Méd. 53, 743, 1946.
- 4839 LEGROUX, R., LEVADITI, J.C., BOUDIN, G. and BOVET, D. Intoxications histaminiques collectives consécutives à l'ingestion de thon frais. Presse Méd. 29, 545, 1946.
- 4840 LE MARE, D.W. Poisonous Malayan fish. Med. J. Malaya 7, 1, 1952.
- 4841 LEONHARDT, E.E. Giftige Fische. Deutsch. Fischerei Corresp. 8, 122, 1904.
- 4842 LERKE, P.A., WERNER, S.B., TAYLOR, S.L. and GUTHERTZ, L.S. Scombroid poisoning. Report of an outbreak. West. J. Med. 129, 381, 1978.
- 4843 LETOURNEUX, M. and BAGNIS, R. Mise en évidence d'une toxine de nature lipidique dans le muscle d'un poisson perroquet de l'espèce Scorops rubroviolaceus. Biochim. 55, 1499, 1973.
- 4844 LEVENSON, C.H. and WOODHULL, A.M. The occurrence of a tetrodotoxin-like substance in the red-spotted newt, Notophthalmus viridescens. Toxicon 17, 184, 1979.
- 4845 LEVINSON, S.R. The purity of tritiated tetrodotoxin as determined by bioassay. Phil. Trans. Roy. Soc. London 270, 337, 1975.
- 4846 LEVINSON, S.R. and MEVES, H. The binding of tritiated tetrodotoxin to squid giant axons. Phil. Trans. Roy. Soc. London 270, 349, 1975.
- 4847 LEVINSON, S.R., CURATALO, C.J., REED, J. and RAFTERY, M.A. A rapid and precise assay for tetrodotoxin binding to detergent extracts of excitable tissues. Anal. Biochem. 99, 72, 1979.
- 4848 LEWIN, L. Lehrbuch der Toxikologie für Aerzte, Studierende, und Apotheker. Urban & Schwarzenberg: Vienna & Leipzig, 421p., 1885.
- 4849 LI, K.-M. Action of puffer fish poison. Nature 200, 791, 1963.
- 4850 LI, K.-M. Fish poisoning in the far East. Far East med. J. 1, 29, 1965.
- 4851 LI, K.-M. A note on ciguatera fish poison and action of its proposed antidotes. (Ciguatera Fish Poisoning: A Symposium.) Hawaii med. J. 24, 358, 1965.
- 4852 LI, K.-M. Ciguatera fish poison: a cholinesterase inhibitor. Science 147, 1580, 1965.
- 4853 LI, P.P. and WHITE, T.D. Rapid effects of veratridine, tetrodotoxin, gramicidin D, valinomycin and NaCN on the Na⁺, K⁺ and ATP contents of synaptosomes. J. Neurochem. 28, 967, 1977.
- 4854 LIEFMANN, I. and ANDREW. Über das Hämolyisin des Aalsersums. Z. Immun. Orig. 11, 707, 1911.
- 4855 LIGUORI, V.R., RUGGIERI, G.D., BASLOW, M.H., STEMPIEN, M.F. and NIGRELLI, F.F. Antibiotic

- and toxic activity of the mucous of the Pacific golden striped bass, Grammistes sexlineatus. Am. Zool. 3, 546, 1963.
- 4856 LIM-BOON-KENG and BODDAERT, A. Notice sur la toxicité, des poissons. Ann. Soc. Méd. Gand. 80, 235, 1900.
- 4857 LINAWEAVER, P.G. Toxic marine life. Milit. Med. 132, 437, 1967.
- 4858 LING, C.Y.-L. and WANG, J.C.-C. The failure of respiration in death by tetrodotoxin poisoning. Q. J. exp. Physiol. 53, 119, 1968.
- 4859 L'INSTITUT PASTEUR DE NOUMÉA. Ichtyotoxisme: son traitement par un agent chélateur. Arch. Inst. Pasteur, Nouméa, Rapp. Tech., 32p., 1966.
- 4860 LIPSIUS, M.R., SIEGMANN, M.J. and KAO, C.Y. Direct relaxant actions of procaine and tetrodotoxin on vascular smooth muscle. J. Pharm. exp. Ther. 164, 60, 1968.
- 4861 LIPSIUS, S.L. and VASSALLE, M. Action of tetrodotoxin on the upstroke of the sinus node action potential. Physiologist 19, 273, 1976.
- 4862 LISUNOFF, S.A. [On the poisoning caused by salted red fish (sturgeon)] Russ. Med. 23-24, 358; 25-26, 378, 1892.
- 4863 LLINAS, R. and HESS, R. Tetrodotoxin-resistant dendritic spikes in avian Purkinje cells. Proc. natn. Acad. Sci. 73, 3520, 1976.
- 4864 LOISEL, G. Les poisons des glandes génitales. Première note. Recherches et expérimentation chez l'Oursin. C.R. Soc. Biol. 55, 1329, 1903.
- 4865 LOISEL, G. Recherches sur les poisons génitaux de différents animaux. C.R. Acad. Sci. 139, 227, 1904.
- 4866 LOISEL, G. Considérations générales sur la toxicité des produits génitaux. C.R. Soc. Biol. 59, 511, 1905.
- 4867 LOISON, G. Poisonous fish of the South Pacific. Q. Bull. S. Pac. Comm. 5, 28, 1955; see also Rev. Med. Hyg. Outre-Mer 28, 68, 1955.
- 4868 LOISON, G. Traitement par l'acupuncture des sequelles de l'ichtyotoxisme. Rev. Int. Acupunct. 42, 161, 1957.
- 4869 LONIE, T.C. Excess vitamin A as a cause of food poisoning. N.Z. med. J. 49, 680, 1950.
- 4870 LORD, C. and SCOTT, H.H. A Synopsis of the Vertebrate Animals of Tasmania. Oldham, Beddome & Meredith: Hobart, p. 94, 1924.
- 4871 LOZANO REY, L. Peces ganoideos y fisóstomos. Mem. Real Acad. Cienc., Madrid 11, 1, 1947.
- 4872 LUEDEMANN, D. Fische. In, Sammlung Göschen, Bd. 356; Das Tierreich 7/2. W. de Gruyter: Berlin, 130p., 1955.
- 4873 LUMIÈRE, A. La toxicité des sérums d'anguille, de murène et de certains autres poissons est-elle due à leur pouvoir globulicide? C.R. Soc. Biol. 100, 1209, 1929.
- 4874 LUTHER, W. and FIEDLER, K. Die Unterwasserfauna der Mittelmeerküsten. P. Parey: Hamburg, 253p., 1961.
- 4875 LYNCH, P.R., COBLENTZ, J.M. and HAMER, P. An evaluation of the northern puffer, Spheroides

- maculatus, for possible toxic properties. Am. J. med. Sci. 254, 173, 1967.
- 4876 MAASS, T.A. Gift-tiere. In, Tabulae biologicae. Junk, W. (ed.), W. Junk: The Hague, Vol. 13, p. 193, 1937.
- 4877 MACGOWAN, D.J. Poisonous fish and fish poisoning in China. Chinese Rec. Mission. J. 17, 45, 139, 1886; see also Bull. U.S. Fish. Comm. 6, 130, 1887.
- 4878 MACHT, D.I. and BARBA-GOSE, J. Pharmacology of Rirvettus pretiosus, or "castor oil fish." Proc. Soc. exp. Biol. Med. 28, 772, 1931.
- 4879 MACHT, D.I. The phytotoxic reactions of normal and pathological blood sera. Protoplasma 27, 1, 1936.
- 4880 MACHT, D.I. An experimental appreciation of Leviticus XI, 9-12 and Deuteronomy XIV, 9-10. Hebrew med. J. 2, 165, 1942.
- 4881 MACHT, D.I. and SPENCER, E.C. Physiological and toxicological effects of some fish muscle extracts. Proc. exp. Biol. Med. 46, 228, 1941.
- 4882 MACHT, D.I., BROOKS, D.J. and SPENCER, E.C. Physiological and toxicological effects of some fish muscle extracts. Am. J. Physiol. 133, 372, 1941.
- 4883 MAC KAY-SAWYER, M.E. and KOMAROV, S.A. Some physiological effects of extractive substances in skate's skin. Contr. Can. Biol. Fish. 7, 441, 1933.
- 4884 MALARD, A.E. Catalogue des poissons des côtes de la Manche dans les environs de Saint-Vaast. Bull. Soc. Philomath. Paris (Ser. 8), 2, 73, 1890.
- 4885 MALARDÉ, L. Les poissons toxiques des mers chaudes. Sem. Méd. (10), 253, 1965.
- 4886 MALARDÉ, L. L'Empoisonnement par le poisson. Papeete, Inst. Recher. Méd. Poly. Fr., Rapp. Tech., 1966.
- 4887 MALJAREVS'KA, A. JA., BIRGER, T.I., SOLOMATINA, V.D. and HUPALO, JU.M. Amino acidic composition and transaminase activity in fish tissues in the medium with blue-green algae. Ukr. Biokhim. Zh. 50, 717, 1978.
- 4888 MANN, W.L. Fish poisoning in Culobra—Virgin Islands area. U.S. Nav. med. Bull. 36, 631, 1938.
- 4889 MANSON-BAHR, P.H. Animal poisons. In, Manson's Tropical Diseases. A Manual of the Diseases of Warm Climates. 13th edit., Manson-Bahr, P.H. (ed.), Williams & Wilkins: Baltimore, 1950.
- 4890 MANSOUR, M.A. and BAYOUMI, M.L. Histopathological changes underlying hepatic dysfunction due to tetrodotoxication. Ann. Zool. 16, 77, 1980.
- 4891 MARCACCI, A. Sur le pouvoir toxique du sang de thon. Arch. Ital. Biol. 16, 1, 1891; see also Atti XIV Congr. Gen. Assoc. Med. Ital. 14, 241, 1893.
- 4892 MARCO, L.A. and NASTUK, W.L. Sarcomeric oscillations in frog skeletal muscle fibers. Science 161, 1358, 1968.
- 4893 MARESTANG. Contribution à l'étude de la géographie médicale. Arch. Méd. nav. 49, 167, 1888.
- 4894 MARETIĆ, Z. [Tourism and disease.] Libelli Medici 2, 1, 1971.
- 4895 MARETIĆ, Z. [Venomous Animals and Poisonous Animals of the

- Adriatic.] J.A.Z.U.: Zagreb, Yugoslavia, 1975.
- 4896 MARETZKI, A. and CASTILLO, J., DEL. A toxin secreted by the soapfish Rypticus saponaceus. A preliminary report. Toxicon 4 245, 1967.
- 4897 MARINKELLE, C.J. Vergiftiging na het eten van zeevis. Med. Mil. nat. Hist. Ver. 1, 3, 1949.
- 4898 MARKAHAM, C. The Voyages of Pedro Fernandes de Quirez, 1595 to 1606. Hakluyt Soc.: London, Vol. 1, p. 14; Vol. 2, p. 290, 477, 1904.
- 4899 MARKOV, S. Seefischvergiftung. Wien Med. Wschr. 93, 388, 1943.
- 4900 MARSHALL, I.G., LAMBERT, J.J. and DURANT, N.N. Inhibition of aminopyridine-induced contractile activity in skeletal muscle by tetrodotoxin and by magnesium. Eur. J. Pharmacol. 54, 9, 1979.
- 4901 MARSHALL, T. Tropical Fishes of the Great Barrier Reef. American Elsevier: N.Y., 239p., 1966.
- 4902 MARTIN, R.M. History of the British Colonies. James Cochran & Co.: London, Vol. 4, p. 436, 1835.
- 4903 MARTIN, W. and BANNER, A.H. The effect of poisonous fish upon intestinal parasites. Trans. Amer. micro. Soc. 77, 304, 1958.
- 4904 MARUMO, F., ASANO, Y., SASAOKA, T. and KOSHIKAWA, S. [Effect of tetrodotoxin on the sodium transport of the toad bladder.] Proc. Jpn. Acad. 43, 404, 1967.
- 4905 MARUMO, F., YAMADA, T., ASANO, Y., SASAOKA, T., YOSHIDA, A. and ENDOU, H. [Role of the inhibitory effect of tetrodotoxin on the active sodium transport of the toad bladder.] Pflugers Arch. 303, 49, 1968.
- 4906 MATHESON, F. and PULOKA, T. Two fatal cases of poisoning by noxious fish. J. trop. Med. Hyg. 64, 163, 1961.
- 4907 MATIĆ-PIANTANIDA, D., VIDAČ-ović-BIVAL, V., RADMAN, V. and MARETIĆ, Z. Antisera against weever and scorpionfish venoms: a preliminary report. In, Natural Toxins. Eaker, D. and Wadström, T. (eds.), Pergamon: Oxford, p. 99, 1980; see also Toxicon 17 (Suppl. 1), 119, 1979.
- 4908 MATSUDA, Y., YOSHIDA, S. and YONEZAWA, T. Tetrodotoxin sensitivity and Ca⁺ component of action potentials of mouse dorsal root ganglion cells cultured in vitro. Brain Res. 154, 69, 1978.
- 4909 MATSUMOTO, T., SONE, H. and NIJYA, I. [On the lipid of "Xenogramma carinatum Weite."] Yukagaku 4, 131, 1955.
- 4910 MATSUMURA, M. and YAMAMOTO, S. [The effect of tetrodotoxin on the neuromuscular junction and peripheral nerve of the toad.] Jpn. J. Pharmacol. 4, 62, 1954.
- 4911 MATSUNAGA, E. [Report of fatal case due to tuna poisoning.] Tokyo Iji Shinshi 892, 811, 1895.
- 4912 MATSUO, N. Studies on the toxicity of fish oil (I). J. Biochem. 41, 481, 1954.
- 4913 MATSUO, N. Studies on the toxicity of fish oil (II). J. Biochem. 41, 647, 1954.
- 4914 MATSUO, N. Nutritional effect of oxidized and thermally polymerized fish oils. Proc. Symp. Foods, Oregon State Univ., Corvallis, Ore, 32p., 1961.

- 4915 MATSUO, N. Biochemical studies on oils and fats (X). Toxicity of thermally polymerized ethyl linolenate. Bull. Seikei Univ. 1, 1, 1961.
- 4916 MATSUO, N. Biochemical studies of fats and oils (XI). Toxicity of cyclic compounds. Tokushima J. exp. Med. 8, 38, 1961.
- 4917 MATSUO, N. Toxicity of cyclic compound of β -eleostearic acid. J. Biochem. 49, 635, 1961.
- 4918 MATSUO, N. Studies on the toxicity of fish oil (III). Tokushima J. exp. Med. 8, 90, 1961.
- 4919 MATSUO, N. Studies on the toxicity of fish oil (IV). Tokushima J. exp. Med. 7, 275, 1961.
- 4920 MATSUO, N. Studies on the toxicity of fish oil (V). Tokushima J. exp. Med. 8, 96, 1961.
- 4921 MATSUO, N. Studies on the toxicity of fish oil (VI). Tokushima J. exp. Med. 7, 334, 1961.
- 4922 MATSUO, N. Studies on the toxicity of fish oil (VII). Tokushima J. exp. Med. 7, 341, 1961.
- 4923 MATSUO, N. Studies on the toxicity of fish oil (VIII). Tokushima J. exp. Med. 7, 347, 1961.
- 4924 MATSUO, R. [Study of the poisonous fishes at Jaluit Island.] Nanyo Gunto Chihobyō Choas Ronbunshu 2, 309, 1934.
- 4925 MATTHEWS, J.C., ALBUQUERQUE, E.X. and ELDEFRAWI, M.E. Influence of batrachotoxin, veratridine, grayanotoxin-I and tetrodotoxin on uptake of Na-22 by rat brain membrane preparations. Life Sci. 25, 1651, 1979.
- 4926 MAZUMDAR, S.K. A case of fish poisoning. Indian med. Gaz. 50, 218, 1915.
- 4927 MC ALLISTER, D.E. Poisonous and venomous fishes of Canada. Natn. Mus. Can., Nat. Hist. Papers (42), 11p., 1968.
- 4928 MC COY, F. On the recent zoology and palaeontology of Victoria. Official Record, Intercol. Exhibit 1866-67, p. 316, 1867.
- 4929 MC CRUDDEN, F.H. The toxic action of certain fish ovaries. Proc. Am. Soc. Biol. Chem. 9, 1181, 1911.
- 4930 MC CRUDDEN, F.H. Pharmakologische und chemische Studien über Barben- und Hechtrogen. Arch. exp. Path. Pharmacol. 91, 46, 1921.
- 4931 MC DONALD, T.F., SACHS, H.G. and DE HAAN, R.L. Development of sensitivity to tetrodotoxin in beating chick embryo hearts, single cells, and aggregates. Science 176, 1248, 1972.
- 4932 MC DONALD, T.F., SACHS, H.G. and DE HAAN, R.L. Tetrodotoxin desensitization in aggregates of embryonic chick heart cells. J. gen. Physiol. 62, 286, 1973.
- 4933 MC FARREN, E.F. Differentiation of the poison of fish, shellfish and plankton. In, Animal Toxins. Russell, F.E. and Saunders, P.R. (eds.), Pergamon: Oxford, p. 85, 1967.
- 4934 MC FARREN, E.F. and BARTSCH, A.F. Application of the paralytic shellfish poison assay to poisonous fishes. J. Assoc. Off. agric. Chem. 43, 548, 1960.
- 4935 MC FARREN, E.F., TANABE, H., SILVA, F.J. et al. The occurrence of a ciguatera-like poison in

- oysters, clams, and *Gymnodinium breve* cultures. Toxicon 3, 111, 1965.
- 4936 MC ILWAIN, H. Tetrodotoxin and the cation content excitability and metabolism of isolated mammalian cerebral tissues. Biochem. Pharmacol. 16, 1389, 1967.
- 4937 MC ILWAIN, H., HARVEY, J.A. and RODRIGUEZ, G. Tetrodotoxin on the sodium and other ions of cerebral tissues, excited electrically and with glutamate. J. Neurochem. 16, 363, 1969.
- 4938 MC LACHLAN, R.S. Ciguatera poisoning. (Letter) Can. med. Assoc. J. 121, 267, 1979.
- 4939 MC LEAN, M.J. and SPERELAKIS, N. Rapid loss of sensitivity to tetrodotoxin by chick ventricular myocardial cells after separation from the heart. Exp. cell Res. 86, 351, 1974.
- 4940 MC LEAN, M.J. and SPERELAKIS, N. Retention of tetrodotoxin sensitivity by monolayer-cultured embryonic chick heart cells. Fed. Proc. 34, 391, 1975.
- 4941 MEBS, D. Chemistry of animal venoms, poisons and toxins. Experientia 29, 1328, 1973.
- 4942 MEBS, D. Ciguatera. Münch. med. Wschr. 122, 1413, 1980.
- 4943 MEREDITH, L.A. Notes and Sketches of New South Wales. John Murray: London, p. 155, 1844; reprinted by Newman, E., Zoologist, 4, 1341, 1846.
- 4944 MERSON, M.H., BAINE, W.B., GANGAROSA, E.J. and SWANSON, R.C. Scombroid fish poisoning. Outbreak traced to commercially canned tuna fish. J.A.M.A. 228, 1268, 1974.
- 4945 METCALFE, A.J. Two deaths from eating "toad fish." Med. J. Aust. 2, 571, 1923.
- 4946 METZELAAR, J. Over Tropisch Atlantic Visschen. A.H. Kruyt: Amsterdam, 314p., 1919.
- 4947 MEYER, P.O. VIII. Kalk, Gifte, Verwertung verschiedener Seetiere, gefürchtete Seetiere. Anthropos 8, 1100, 1913.
- 4948 MEYER-AHRENS, K.M. Von den giftigen Fischen. Schweiz. Zschr. Med. Chir. Geburtsh. 3, 188; 4-5, 269, 1855.
- 4949 MICHAILOV, M.C., KUMPER, H.J. and WELSCHER, U.E. The action of certain drugs on the immediate contractile response of isolated guinea-pig detrusor muscle to x-irradiation. Strahlentherapie 147, 290, 1974.
- 4950 MICHAILOV, M.C., WELSCHER, U.E., WOLFFHARDT, C.M., SCNITTler, I. and PRECHTER, I. Action of tetrodotoxin on the contractile responses of isolated guinea-pig urinary bladder preparation to X-irradiation and to electrical stimulation. Radiat. Environ. Biophysics 11, 289, 1975.
- 4951 MIGITA, M. and HASHIMOTO, Y. [On the puffer roe pickled in salt and rice-bran.] Nippon Sui San Gakkatshi 16, 335, 1951.
- 4952 MILES, P.S. Ciguatera fish poisoning. I. The ecology of ciguateric reef fishes in the Line Islands. B.P. Bishop Mus., Occ. Pap. 23, 305, 1968.
- 4953 MILEWSKI, A. Giftfische. Fischgifte und Fischvergiftungen. Zool. Beobachter 55, 286, 1914.
- 4954 MILLER, D.J. and LEA, R.N. Guide to the coastal marine fishes of

- California. Fish. Bull. 157, 2, 1972.
- 4955 MILLER, R.W. Prenatal origins of mental retardation: epidemiologic approach. J. Pediat. 71, 1, 1967.
- 4956 MILLS, A.R. Poisonous fish in the South Pacific. J. trop. Med. Hyg. 59, 99, 1956.
- 4957 MILLS, L.J. and KLEIN-MAC PHEE, G. Toxicity of the New England red tide dinoflagellate to winter flounder larvae. In, Toxic Dinoflagellate Blooms. (Proc. 2nd Intern. Conf.), Taylor, D.L. and Seliger, H.H. (eds.), Elsevier/North-Holland: N.Y., Vol. 1, p. 389, 1979.
- 4958 MILLS, R.G. and BRAY, J.J. A slow-release technique for inducing prolonged paralysis by tetrodotoxin. Pflügers Arch. 383, 67, 1979.
- 4959 MINE, M. [An experiment to see whether the dried puffer meat is poisonous.] Tokyo med. Assoc. Mag. 9, 499, 1893; see also Zschr. Med. Ges. Tokyo 9, 499, 1895.
- 4960 MIRA GUTIERREZ, J. Poisonous fish. Revta Sanid. Hig. Publ. 48, 211, 1974.
- 4961 MITCHELL, C.A. The toxine of eel's blood. Knowl. Scient. News 29, 459, 1906.
- 4962 MITCHELL, K. Ciguatera. (Letter) Med. J. Aust. (2), 660, 1976.
- 4963 MITOMO, Y. [Studies of eel serum: I. the pharmacological action.] Tohoku J. exp. Med. 8, 284, 1927.
- 4964 MITOMO, Y. Studien über das Aalserum. II. Tohoku J. exp. Med. 8, 312, 1927.
- 4965 MITOMO, Y. Studien über das Aalserum. III. Tohoku J. exp. Med. 8, 324, 1927.
- 4966 MIURA, M. [Poisoning from eating yellowtail.] Tohoku J. Med. Sci. 3, 366, 1889.
- 4967 MIURA, M. and TAKESAKI, H. [Investigation on the localization of puffer poison.] Tokyo med. Assoc. Mag. 3, 451, 1887; see also Zschr. Tokio med. Ges. 3, 451, 514, 1889; see also Arch. Path. Anat. 122, 92, 1887.
- 4968 MIURA, M. and TAKESAKI, K. Localization of tetrodon poison. Arch. Path. Anat. Path. 122, 92, 1890.
- 4969 MIWA, T. and NISHI, K. [On application of hepatotoxin (Osaka) on tetanus.] Iji Shimbum 847, 155, 1912.
- 4970 MIYAHARA, J.T., AKAU, C.K. and YASUMOTO, T. Effects of ciguatoxin and maitotoxin on the isolated guinea pig atria. Res. Commun. Chem. Pathol. Pharmacol. 25, 177, 1979.
- 4971 MIYAHARA, J., SHIRAKI, K., AKAU, R. et al. Comparative examination of the radio immunoassay for detection of ciguatoxin in fish tissue and the pharmacological effect of extracted ciguatoxin on mammalian atria. Fed. Proc. 39, 1980 (Abst. #4603).
- 4972 MIYAKE, S. Die isoelektrischen Punkte der Protamine. Hoppe-Seyl. 172, 225, 1927.
- 4973 MIYAKI, K. and HAYASHI, M. Food poisoning caused by ordinary putrefaction. II. Detection of histamine and its synergistic factor in deteriorated dried mackerel pike. J. Pharm. Soc. Jpn. 74, 1145, 1954.

- 4974 MIZUKAWA, F. [A case of hepatoxin treatment for impotence.] Jpn. Z. Derm. 12, 1073, 1912.
- 4975 MIZUTA, M., ITO, T., MURAKAMI, T. and MIZOBE, M. [Mass poisoning from the liver of Sawara and Iwashikujira.] Nihon Iji Shimpo 1710, 27, 1957.
- 4976 MOORE, G.F. Diary of Ten Years Eventful Life of an Early Settler in Western Australia. M. Walbrook: London, p. 418, 1884.
- 4977 MOORE, J.W. Voltage clamp studies on internally perfused axons. J. gen. Physiol. 48, 11, 1965.
- 4978 MOORE, J.W. and NARAHASHI, T. Tetrodotoxin's highly selective blockage of an ionic channel. Fed. Proc. 26, 1655, 1967.
- 4979 MOORE, J.W., ANDERSON, N. and NARAHASHI, T. Tetrodotoxin blocking early conductance channel or sodium? Fed. Proc. 25, 569, 1966.
- 4980 MOORE, J.W., NARAHASHI, T., ANDERSON, N.C. and BLAUSTEIN, M.P. Tetrodotoxin: comments on effects on squid axons. Science 157, 220, 1967.
- 4981 MOORE, J.W., BLAUSTEIN, M.P., ANDERSON, N.C. and NARAHASHI, T. Basis of tetrodotoxin's selectivity in blockage of squid axons. J. gen. Physiol. 50, 1401, 1967.
- 4982 MOQUIN-TANDON, A. Éléments de zoologie médicale. Bailliere & Fils: Paris, p. 218, 1860.
- 4983 MORELON, R. and NIAUSSAT, P. Le problème de la ciguatera à l'heure actuelle. CRSSA, Biol. Mus. Hist. Nat.: Paris, 75p., 1965.
- 4984 MORELON, R. and NIAUSSAT, P. Ciguatera et ichtyosarcotoxisme. Cahiers du Pacif. (10), 7, 1967.
- 4985 MORI, M., SAITO, T., NAKANISHI, Y., MIYAZAWA, K. and HASHIMOTO, Y. The composition and toxicity of wax in the flesh of castor oil fishes. Bull. Jpn. Soc. scient. Fish. 32, 137, 1966.
- 4986 MORI, Y., ANRAKU, M., YAGI, K. et al. On the venomous crustacea and fish from Amami-Oshima and Okinawa Islands-I. Med. J. Kagoshima Univ. 19, 729, 1968.
- 4987 MORICE, J. Révision de ce qui connu à propos de la ciguatera, intoxication causée par l'ingestion de certains poissons tropicaux frais. Saint-Barthélémy, 65p., 1962.
- 4988 MORICE, J. Nouvelle théorie à propos de l'origine de la vénénosité de certains poissons antillais. Rev. Trav. Inst. Pêches Marit. 28, 232, 1964.
- 4989 MORRIS, J.G., JR. Ciguatera fish poisoning. J.A.M.A. 244, 273, 1980.
- 4990 MORTILLARO, N.A. and HORN, L. Vascular response of the cat intestine to norepinephrine following infusion of tetrodotoxin (TTX). Physiologist 14, 198, 1971.
- 4991 MORTON, C. Diarrhoea as a result of fish poisoning at Nassau, Bahamas. Stat. Rpt. Hlth. Navy for 1865, p. 107, 1868.
- 4992 MORTON, R.A. and BURKLEW, M.A. Incidence of ciguatera in barracuda from the west coast of Florida. Toxicon 8, 317, 1970.
- 4993 MORVAN, A. De l'empoisonnement par le sourdon (Cardium edule) et par le bonite (Scomber palamys). J. Chem. Méd. Pharm. Toxicol., Paris 4, 719, 1857.

- 4994 MOSHER, H.S. Non-protein neurotoxins. Science 151, 860, 1966.
- 4995 MOSHER, H.S., FUHRMAN, F.A., BUCHWALD, H.D. and FISCHER, H.G. Tarichatoxin-tetrodotoxin: a potent neurotoxin. Science 144, 1100, 1964.
- 4996 MOSSO, U. Un venin dans le sang des Murénidés. Arch. Ital. Biol. 10, 141, 1888; see also Arch. exp. Path. Pharm. 25, 111, 1888; see also Rend. Reale Accad. Lincei 4, 665, 1888.
- 4997 MOSSO, U. Ricerche sulla natura del veleno che si trova nel sangue dell'anguilla. Rend. Reale Accad. Lincei 5, 804, 1889.
- 4998 MOSSO, U. Recherches sur la nature de venin qui se trouve dans le sang de l'anguille. Arch. Ital. Biol. 12, 229, 1889.
- 4999 MOTOKASU, A. Ciguatera—tropical and subtropical marine fish poisonings. Bull. Jpn. Soc. scient. Fish. 31, 1965.
- 5000 MOWBRAY, L.L. Fish poisoning (Ichthyotoxismus). Bull. N.Y. zool. Soc. 19, 1422, 1916.
- 5001 MOWBRAY, L.L. Certain citizens of the warm seas. Nat. Geogr. Mag. 41, 27, 1922.
- 5002 MUCHNIK, S. and KOTSIAS, B.A. Tetrodotoxin blocks mechanical response in mammalian muscle in the presence of tetrodotoxin-resistant action potentials. Acta Physiol. Lat. Amer. 28, 115, 1978.
- 5003 MUKHOPADHYAY, A.K. and KUNNEMANN, M. Evidence for acetylcholine release from lower esophageal sphincter by tetrodotoxin. Fed. Proc. 39, 490, 1980.
- 5004 MUNSON, R., WESTERMARK, B. and GLASER, L. Tetrodotoxin-sensitive sodium channels in normal human fibroblasts and normal human glia-like cells. Proc. natn. Acad. Sci. 76, 6425, 1979.
- 5005 MURRAY, J. Poisonous, or moon-struck fish. Aust. med. Gaz. p. 133, 1870.
- 5006 MURTHA, E.F. Pharmacological study of poisons from shellfish and puffer fish. Ann. N.Y. Acad. Sci. 90, 820, 1960.
- 5007 MURTHA, E.F., STABILE, D.E. and WILLIS, J.H. Some pharmacological effects of puffer poison. J. Pharm. exp. Ther. 122, 247, 1957.
- 5008 NADEAUD, J. Plantes usuelles des Tahitiens. Thesis, Montpellier 52, 40, 1864.
- 5009 NAGAI, J. [Chemistry of fugu-poison and biochemistry of its intoxication.] Fukuoka Acta med. 45, 60, 1954.
- 5010 NAGAI, J. Isolierung des Kugelfischgiftes mit Ionen austauscher. Hoppe-Seyl. Z. 306, 104, 1956.
- 5011 NAGAI, V. and ITO, T. On the chemical study of fugu (Spheroides) poisoning. I. Nitrogen distribution in purified poison. J. Biochem. 30, 235, 1939.
- 5012 NAGASAWA, J., SPIEGELSTEIN, M.Y. and KAO, C.Y. Cardiovascular actions of saxitoxin. J. Pharm. exp. Ther. 178, 103, 1971.
- 5013 NAGAYOSI, S. [The intraocular tension, especially with consideration of the relation between the pressures of the eye, blood and cerebrospinal fluid.] Fukuoka Acta Med. 34, 312, 1941.
- 5014 NAKAMURA, Y., NAKAJIMA, S. and GRUNDFEST, H. Eel electroplagues; spike electrogenesis

without potassium activation.
Science 146, 266, 1964.

membrane conductances. J. gen. Physiol. 51, 93s, 1968.

5015 NAKAMURA, Y., NAKAJIMA, S. and GRUNDFEST, H. The action of tetrodotoxin on the electrogenic components of giant squid axons. J. gen. Physiol. 48, 985, 1965.

5024 NARAHASHI, T., ANDERSON, N.C. and MOORE, J.W. Tetrodotoxin does not block excitation from inside the nerve membrane. Science 153, 765, 1966.

5016 NAKANISHI, K. and KATANO, H. [Action of cytochrome on the lethal toxicity of tetrodotoxin.] Ann. Takamine Lab. 12, 203, 1960.

5025 NARAHASHI, T., ANDERSON, N.C. and MOORE, J.W. Comparison of tetrodotoxin and procaine in internally perfused squid giant axons. J. gen. Physiol. 50, 1413, 1967.

5017 NAKAZAWA, T. and OGURA, Y. [Effect of crystalline tetrodotoxin on various enzymes and enzyme systems in animal tissues.] Ann. Rept. Inst. Food Microbiol., Chiba Univ. 13, 59, 1961.

5026 NARAHASHI, T., HAAS, H.G. and THERRIEN, E.F. Saxitoxin and tetrodotoxin: comparison of nerve blocking mechanism. Science 157, 1441, 1967.

5018 NARA, S. On the proteolytic enzyme in the liver of a cuttle-fish, *Ommastrephes sloani*, Pacificus. I. Partial purification and some enzymatic properties. Agric. biol. Chem. 25, 473, 1961.

5027 NARAHASHI, T., MOORE, J.W. and POSTON, R.N. Specific action of tetrodotoxin derivatives on nerve. Science 154, 425, 1966.

5019 NARAHASHI, T. [Action mechanism of tetrodotoxin—wide use of the toxin in the study of excitation phenomena.] Kagaku to Seibutsu 4, 364, 1966.

5028 NARAHASHI, T., MOORE, J.W. and POSTON, R.N. Tetrodotoxin derivatives: chemical structure and blockage of nerve membrane conductance. Science 156, 976, 1967.

5020 NARAHASHI, T. Mechanism of action of tetrodotoxin and saxitoxin on excitable membranes. Fed. Proc. 31, 1124, 1972.

5029 NARAHASHI, T., MOORE, J.W. and SCOTT, W.R. Tetrodotoxin blockage of sodium conductance increase in excitation. J. gen. Physiol. 47, 965, 1964.

5021 NARAHASHI, T. Chemicals as tools in the study of excitable membrane. Physiol. Rev. 54, 813, 1974.

5030 NARAHASHI, T., DEGUCHI, T., URAKAWA, N. and OHKUBO, Y. Stabilization and rectification of muscle fiber membrane by tetrodotoxin. Am. J. Physiol. 198, 934, 1960.

5022 NARAHASHI, T. and HAAS, H.G. DDT: interaction with nerve membrane conductance changes. Science 157, 1438, 1967.

5031 NARUKE, T. Studien über Entgiftung von Tetrodotoxin. Jpn. J. med. Sci., IV Pharm. 8, 135, 1935.

5023 NARAHASHI, T. and MOORE, J.W. Neuroactive agents and nerve

5032 NATER, J.E. and DOEGLAS, H.M.G. Halibut liver poisoning in

- 11 fishermen. Acta Derm. Vener. 50, 109, 1970.
- 5033 NAYLOR, A.W. Specific action of tetrodotoxin derivatives on nerve. Science 154, 425, 1966.
- 5034 NELSON, J.L. Report of an outbreak of fish poisoning on board the U.S.S. "California." U.S. Nav. med. Bull. 25, 480, 1927.
- 5035 NEVENZEL, J.C., RODEGKER, W. and MEAD, J.F. The lipids of Ruvettus pretiosus muscle and liver. Biochem. 4, 1589, 1965.
- 5036 NEVEU, P. [The poisonous fishes of the Reunion Island littoral] Thesis, École Nat. Vet. d'Alfort, 1978.
- 5037 NIAUSSAT, P. and MORELON, R. Le Problème de la ciguatera à l'heure actuelle. Bio-Éco-Centre Recherches Serv., Santé des Armées, Paris, Rapp. part., (993), 1966.
- 5038 NIAUSSAT, P.M., DROUET, J., BAGNIS, R., DELOINCE, R. and CHANFOUR, B. Ciguatera: neurophysiologic and histoenzymologic studies of several fractions of ciguatoxic extracts. C.R. Soc. Biol. 169, 912, 1975.
- 5039 NICHOLIS, L. Tropical Nutrition and Dietetics. Bailliere, Tindal & Cox: London, p. 387, 1951.
- 5040 NICHOLS, J.T. Interesting citizens of the Gulf Stream. Nat. geogr. Mag. 39, 75, 1921.
- 5041 NIGRELLI, R.F. Fish may be poisonous, too. Animal Kingdom 47, 122, 1944.
- 5042 NIGRELLI, R.F., STEMPIEN, M.F., JR., RUGGIERI, G.D., LIGUORI, V.R. and CECIL, J.T. Substances of potential biomedical importance from marine organisms. Fed. Proc. 26, 1197, 1967.
- 5043 NIKITPOPOULOU, G. The effect of tetrodotoxin on the transmembrane potentials of the heart cells. Q. J. exp. Physiol. 59, 19, 1974.
- 5044 NIKOLSKI, G.W. Spezielle Fischkunde. VEB Deutscher Verlag der Wissenschaften: Berlin, 632p., 1957.
- 5045 NOGUCHI, T. [Is a puffer poisoned by feeding on a toxic puffer?—Resistance of puffer to tetrodotoxin.] Kagaku to Seibutsu 13, 309, 1975.
- 5046 NOGUCHI, T. [Resistivity of globe-fish against the globe-fish poison, tetrodotoxin.] Kagaku to Seibutsu 13, 309, 1975.
- 5047 NOGUCHI, T. and HASHIMOTO, Y. Isolation of tetrodotoxin from a goby Gobius criniger. Toxicon 11, 305, 1973.
- 5048 NOGUCHI, T., KAO, H. and HASHIMOTO, Y. [Toxicity of the goby, Gobius criniger.] Nippon Suisan Gakkaishi 37, 642, 1971.
- 5049 NOMIYAMA, S. Pharmakologische Untersuchungen über Fugugift. Folia Pharmacol. Jpn. 95, 458, 1942.
- 5050 NOMIYAMA, S. [The pharmacological study of puffer poison.] Nippon Yakubutsugaku Zasshi 35, 458, 1942.
- 5051 NORMAN, J.R. A History of Fishes. Ernest Benn: London, p. 140, 1931; 2nd edit., 1936; F.A. Stokes: N.Y., 1949.
- 5052 NORMAN, J.R. Illustrated Guide to the Fish Gallery. Brit. Mus. Nat. Hist., London, p. 122, 153, 160, 1937.

- 5053 NORTH, R.A. The calcium-dependent slow after-hyperpolarization in myenteric plexus neurones with tetrodotoxin-resistant action potentials. Br. J. Pharmacol. 49, 709, 1973.
- 5054 NUKI, B. and NAGANO, M. [Pharmacological actions of tetrodotoxin.] Folia Pharmacol. 55, 1305, 1959.
- 5055 NUNEZ, M.T., FISCHER, S. and JAIMOVICH, E. A fluorimetric method to determine tetrodotoxin. Anal. Biochem. 72, 320, 1976.
- 5056 OBATA, K. Development of neuromuscular transmission in culture with a variety of neurons and in the presence of cholinergic substances and tetrodotoxin. Brain Res. 119, 141, 1977.
- 5057 OCHS, S. and CLARK, F.J. Tetrodotoxin analysis of direct cortical responses. EEG J. 24, 101, 1968.
- 5058 OGILBY, J.D. Commercial Fishes and Fisheries of Queensland. Govt. Printer: Brisbane, p. 49, 1954.
- 5059 OGONUKI, H. and IDE, M. Outbreaks of food poisoning in Japan. Proc. 6th Pac. Sci. Congr. 1939 5, 423, 1942.
- 5060 OGURA, Y. [Recent findings on the swellfish (*Fugu niphobles*) toxin, tetrodotoxin.] Chiba Daigaku Fuhai Kenkyusho Kokoku 9, 186, 1956.
- 5061 OGURA, Y. Sur l'existence de l'acetylcholine dans les extraits fluides crues d'ovaire du tétodon (*fugu*). Ann. Rpt. Inst. Food Microbiol., Chiba Univ. 10, 84, 1957.
- 5062 OGURA, Y. [Some recent problems on fugutoxin, particularly on crystalline tetrodotoxin.] Seita. No Kagaku 9, 281, 1958.
- 5063 OGURA, Y. [Statistical survey of tetrodotoxin poisoning.] Ann. Rpt. Inst. Food Microbiol., Chiba Univ. 11, 79, 1958.
- 5064 OGURA, Y. [The effect of tetrodotoxin on edema formation in a hind-paw of a rat induced by 5-hydroxytryptamine, histamine and albumin.] Ann. Rpt. Inst. Food Microbiol., Chiba Univ. 12, 103, 1959.
- 5065 OGURA, Y. Contribution à l'étude du mécanisme d'action de la tétrodoxine au niveau de la jonction neuro-musculaire. Instit. Pharm. Faculté Méd., Paris, 26p., 1962.
- 5066 OGURA, Y. [Analysis of the phenomenon of potentiation of the maximum contraction provoked by weak doses of tetrodotoxin.] Ann. Rpt. Inst. Food Microbiol., Chiba Univ. 15, 97, 1963.
- 5067 OGURA, Y. [The biological estimation of crystalline tetrodotoxin. III. On the isolated stomach-vagal nerve preparation of rat.] Ann. Rpt. Inst. Food Microbiol., Chiba Univ. 15, 93, 1963.
- 5068 OGURA, Y. [Tetrodotoxin.] Shinkei Kenkyo no Shinpo 24, 860, 1980.
- 5069 OGURA, Y. and FUJIMOTO, K. [Influence of tetrodotoxin, succinylcholine, and chlorpromazine on the movement of aldolase from muscle cells.] Ann. Rpt. Inst. Food Microbiol., Chiba Univ. 16, 57, 1963.
- 5070 OGURA, Y. and HORI, H. L'influence de la tétrodoxine cristallisée sur la poids de l'organe et la courbe ponderale. Ann. Rpt. Inst. Food Microbiol., Chiba Univ. 12, 100, 1959.

- 5071 OGURA, Y. and HORI, H. [Effect of crystalline tetrodotoxin on gastric secretory activity.] Folia Pharmacol. Jpn. 57, 274, 1961.
- 5072 OGURA, Y. and MORI, Y. [Effect of crystalline tetrodotoxin on crayfish nerve-muscle preparation.] Ann. Rpt. Inst. Food Microbiol., Chiba Univ. 16, 64, 1963.
- 5073 OGURA, Y. and MORI, Y. Comparison of crystalline tetrodotoxin sensitivity on different sites of the toad heart. Third Intern. Pharmacol. Congr., Sao Paulo, 1966 (Abst.).
- 5074 OGURA, Y. and MORI, Y. Mechanism of local anesthetic action of crystalline tetrodotoxin and its derivatives. Europ. J. Pharmacol. 3, 58, 1966.
- 5075 OGURA, Y. and NAKAGIMA, S. [The action of crystalline tetrodotoxin on the righting reflexes.] Ann. Rpt. Inst. Food Microbiol., Chiba Univ. 12, 115, 1959.
- 5076 OGURA, Y. and NARA, J. [Influence of crystalline tetrodotoxin on quantitative measurement of Evans blue in the tissues of rat.] Ann. Rpt. Inst. Food Microbiol., Chiba Univ. 16, 61, 1963.
- 5077 OGURA, Y. and NARA, J. [Effects of crystalline tetrodotoxin on the G-strophanthin induced contraction of frog skeletal muscle.] Ann. Rpt. Inst. Food Microbiol., Chiba Univ. 17, 53, 1964.
- 5078 OGURA, Y., MORI, Y. and WATANABE, Y. Inhibition of the release of acetylcholine from isolated guinea-pig ileum by crystalline tetrodotoxin. J. Pharm. exp. Ther. 154, 456, 1966.
- 5079 OGURA, Y., NARA, J. and YOSHIDA, T. Comparative pharmacological actions of ciguatoxin and tetrodotoxin, a preliminary account. Toxicon 6, 131, 1968.
- 5080 OGURA, Y., WATANABE, Y. and MORI, Y. Actions of crystalline tetrodotoxin, procaine, eserine and neostigmine on the electrical activities of crayfish muscle fibers. Jpn. J. Pharmacol. 16, 173, 1966.
- 5081 OGURA, Y., YOSHIDA, Y., SATO, T. et al. Pharmacological properties of ciguatoxin. Rept. 2nd Ann. Conf. Marine Toxins, Jpn.-U.S. Coop. Proj., Honolulu, 1967.
- 5082 OHNISHI, T. and ISHIDA, A. Mechanism of inhibitory action of tetrodotoxin in excitable membranes. Biochem. Biophys. res. Commun. 27, 552, 1967.
- 5083 OHSHIKA, H. Marine toxins from the Pacific - IX. Some effects of ciguatoxin on isolated mammalian atria. Toxicon 9, 337, 1971.
- 5084 OIKAWA, T. and SEKIYA, M. [Toxicity and pharmacological actions of constituents of the Lullhead (*Gymnocanthus herzensteini*, Jordan et Starks, 1906. I.) Yamaguchi clin. Med. 3, 118, 1955.
- 5085 OGALO, O. Human disease due to fish and fish products. Excerpta Medica 13, 383, 1967.
- 5086 OKADA, Y. Fishes of Japan. Maruzen: Tokyo, 434p., 1955.
- 5087 OKADA, Y. and MATSUBARA, K. Keys to the Fishes and Fish-like Animals of Japan. Sanseido: Tokyo, 584p., 1938.
- 5088 OKIHIRO, M.M., KEENAN, J.P. and IVY, A.C. Ciguatera fish poisoning with cholinesterase inhibition. Ciguatera fish poisoning: a symposium. Hawaii med. J. 24, 353, 1965.

- 5089 OLSZEWSKA, E., JANISZEWSKI, L. and GOJ, H. The influence of tetrodotoxin (TTX) on the action potentials in the neurons of *Planorbis cornutus* L. Bull. Acad. Pol. Sci. 22, 523, 1974.
- 5090 OMMANEY, H.M. Death from eating a fish. Ms. report in Pub. Rec. Off., London; copy State Archives, Perth, W. Aust., Aug. 16, 1874.
- 5091 O'NEILL, J.B. Food poisoning. Nav. med. Bull., Wash. 36, 629, 1938.
- 5092 OPPENHEIMER, C. Toxines and Antitoxines. Mitchell, C.A. (transl.), C. Griffin: London, p. 239, 1906.
- 5093 ORLOV, G.A. and BYCHIKHIN, N.P. [Occupational Injuries and Diseases of Hands of Fishermen and Workers in the Fish Industry.] Meditsina Publ.: Moscow, 87p., 1964.
- 5094 OSAWA, K. [On poisoning by tetrodon fish. First report.] Iji Shinbun 122, May 25, 1884.
- 5095 OSAWA, K. [Review of puffer poison research.] Ikai Ji-ho 1411, 1116, 1921.
- 5096 OSAWA, K. and FURUKAWA, S. [Physiological effects of puffer poison on laboratory animals.] Rept. Tokyo Med. Soc., 1885.
- 5097 OSAWA, S. [An example of treatment of asthma with tetrodotoxin.] Chiryō Yakuho 296, 16, 1928.
- 5098 OSHIMA, N. [Senryu verses related to marine products. I.] Suisankai 344, 391, 1927.
- 5099 OSHIMA, Y. and HASHIMOTO, Y. Separation of grammistins A₁ and A₂ from a soapfish *Pogonoperca punctata*. In, Animal, Plant, Microbial Toxins. Ohsaka, A., Hayashi, K. and Sawai, Y. (eds.), Plenum Press: N.Y., Vol. 1, p. 297, 1976.
- 5100 OSHIMA, Y., SHIOMI, K. and HASHIMOTO, Y. Comparison of grammistins from four species of grammistid fishes. Bull. Jpn. Soc. scient. Fish. 40, 223, 1974.
- 5101 OUDARD. Intoxication par des poissons en Chine. Arch. Méd. Nav., Paris 92, 38, 1909.
- 5102 OZAWA, H. and SUGAWARA, K. Site of action of crystalline tetrodotoxin on sympathetic nervous systems. Jpn. J. Pharm. 17, 267, 1967.
- 5103 OZEKI, M. and GRUNDFEST, H. Different effects of tetrodotoxin on various electrogenic components. Fed. Proc. 24, 608, 1965.
- 5104 OZEKI, M. and NOMA, A. The actions of tetrodotoxin, procaine and acetylcholine on gustatory receptors in frog and rat. Jpn. J. Physiol. 22, 467, 1972.
- 5105 PAETRO, S. Food poisoning caused by the great barracuda. Pub. Hlth. Rpt. 71, 1, 1956.
- 5106 PAGNONI, G. [Poisoning by the ingestion of tuna.] Boll. Soc. Med. Prov. Bergamo 3, 62, 1896.
- 5107 PAPPANO, A.J. Action potentials in chick atria: increased susceptibility to blockade by tetrodotoxin during embryonic development. Circ. Res. 31, 379, 1972.
- 5108 PAPPANO, A.J. Action potentials in chick atria: ontogenetic changes in the dependence of tetrodotoxin resistant action potentials on calcium, strontium, and barium. Circ. Res. 39, 99, 1976.

- 5109 PAPPE, L. Synopsis of the Edible Fishes of the Cape of Good Hope. Van de Sandt de Villiers & Tiers: Cape Town, 34p., 1853.
- 5110 PAPPERHEIM, L. Meat diet. Handbuch der Sanitäts-Polizei 1, 592, 1838.
- 5111 PARADICE, W.E.J. Injuries and lesions caused by the bites of animals and insects. Med. J. Aust. 2, 690, 1924.
- 5112 PARC, E., DUCOUSSO, R., CHANTEAU, S., CHUNGUE, E. and BAGNIS, R. Problems linked to the ciguatera immunological detection. Toxicon 17 (Suppl. 1), 137, 1979 (Abst.).
- 5113 PARNES, J. and ZLOTKIN, E. Action of the toxic skin secretion of the flatfish Pardachirus marmoratus on the guinea-pig ileum. Toxicon 14, 85, 1976.
- 5114 PARR, A.E. Teleostean shore and shallow-water fishes from the Bahamas and Turks Island. Bull. Bingham oceanogr. Coll. 3, 148, 1930.
- 5115 PATTISON, G.J. Toad fish. New S. Wales med. Gaz. 2, 138, 1872.
- 5116 PAWLOWSKY, E.N. Gifftiere und ihre Giftigkeit. Gustav Fischer: Jena, 516p., 1927.
- 5117 PAWLOWSKY, E.N. [Experiments on the influence of functional primordia of poisonous glands of the skin of Sebastes norvegicus on human skin.] Sbornik posvyashchennyi 25-letiyu mauchnoi deyatelnosti Prof. P.A. Anchkova, p. 260, 1935.
- 5118 PAWLOWSKY, E.N. Medical Geography of the U.S.S.R. U.S. Dept. Comm., Off. Tech. Serv., Joint Publ. Res. Serv. (15,633), 312p., 1962.
- 5119 PAYNE, C.A. and PAYNE, S.N. Ciguatera in Puerto Rico and the Virgin Islands. N. Engl. J. Med. 296, 949, 1977.
- 5120 PELHATE, M. and SATTELLE, D.B. Synthetic saxitoxin selectivity inhibits sodium currents in the cockroach giant axon. J. Physiol. 284, 89, 1978.
- 5121 PELLEGRIN, J. Les poissons vénéneux. Thesis 510, Fac. Méd. Paris, 113p., 1899.
- 5122 PELLEGRIN, J. and GLAIZE, E.P. Un cas d'intoxication par le barbeau au moment du frai. Bull. Soc. zool. France 28, 143, 1903.
- 5123 PENNAVARIA, F. Un caso d'avvelenamento col sangue recente e crudo delle Anguille. Farm. Ital. 12, 328, 1888.
- 5124 PEPPER, S.J. Toxic fish and mollusks. Info. Bull. Air Train. Command, Environ. Info., U.S. Dept. Defense, 1975.
- 5125 PERES-GOMES, F. and RIBEIRO, J.A. Modification of the cardiotoxic effects of ouabain by acepromazine, tetrodotoxin and magnesium sulphate. Pharmacology 18, 80, 1979.
- 5126 PERRONCITO, A. Isotoxicité du sang d'animaux traités avec le sérum d'Anguille. C.R. Soc. Biol. 68, 133, 1910.
- 5127 PERROT, E. and VOGT, E. Poisons de Flèches et Poisons d'Épreuve. V. Frères: Paris, Vol. XII, 367p., 1913.
- 5128 PETTIT, A. Altérations rénales consécutives à l'injection du sérum d'anguille. C.R. Soc. Biol. 50, 320, 1898.
- 5129 PETTIT, A. Altérations rénales consécutives à l'injection du sérum de

- Congr. Bull. Mus. Hist. Nat., Paris 7, 75, 1901.
- 5130 PFAFF, J.R. On a new genus and species of the family Gobiesocidae from the Indian Ocean, with observations on sexual dimorphism in the Gobiesocidae and on the connection of certain gobiesocids with echinids. Vidensk. Meddr. dansk. naturh. Foren. 103, 413, 1942.
- 5131 PHILLIPS, C. and BRADY, W.H. Sea Pests: Poisonous or Harmful Sea Life of Florida and the West Indies. Univ. Miami Press: Miami, 78p., 1953.
- 5132 PHISALIX, C. and BERTRAND, G. Recherches sur la toxicité du sang du crapaud commun. Arch. Physiol. norm. path. 5, 511, 1893.
- 5133 PHISALIX, C. Propriétés immunisantes du sérum d'Anguille contre le venin de vipère. C.R. Soc. Biol. 48, 1128, 1896; see also C.R. Acad. Sci. 123, 1305, 1896.
- 5134 PHISALIX, M. Sur l'indépendance des propriétés toxiques et des propriétés vaccinales dans la sécrétion cutanée muqueuse des Batraciens et de quelques Poissons. C.R. Acad. Sci., Paris 157, 1160, 1913.
- 5135 PHISALIX, M. Animaux Venimeux et Venins. 2 vols, Masson & Cie: Paris, 1922.
- 5136 PHISALIX, M. Immunité naturelle de l'anguille vis-à-vis du virus rabique et action rabicide de son sérum. Bull. Mus., Paris, p. 89, 1926.
- 5137 PHISALIX, M. Prophylaxie et traitement de piqûres venimeuses de poissons. Notes, Sta. Océanogr. Salammbo, (23), 1931.
- 5138 PIGULEVSKY, S.V. [Fishes Dangerous to Man.] Medicine: Leningrad, 115p., 1964.
- 5139 PIGULEVSKY, S.V. [Poisonous and Venomous Reptiles and Fishes.] Medicine: Leningrad, 375p., 1966.
- 5140 PILAR, G. Effect of tetrodotoxin on spontaneous potentials at pigeon iris neuro-muscular junctions. Europ. J. Pharmacol. 6, 129, 1969.
- 5141 PILLSBURY, R.W. Avoidance of poisonous eggs of the marine fish, Scorpaenichthys marmoratus by predators. Copeia (3), 251, 1957.
- 5142 PISANO, C. Scombroid poisoning. (Letter) West. J. Med. (1), 78, 1979.
- 5143 PLACIDI, L. and SAUNIE, L. [Fish as foodstuff. The dangerous fish. General review.] Maroc med. 39, 755, 1960.
- 5144 PLAGNOL, H. and ALDRIN, J.F. La histamina en los atunes del Golfo de Guinea. Rev. Conserve 1, 143, 1963.
- 5145 POCCHIARI, F. International trade in mislabelled puffer fish. Pub. Hlth. (London) 92, 197, 1978.
- 5146 POEY, F. Ciguatera: memoria sobre la enfermedad ocasionada por los peces venenosos. Repert. Físico-Nat. Cuba 2, 1, 25, 1866.
- 5147 POHL, J. Beitrag zur Lehre von den Fischgiften. Prag. Med. Wschr. 18, 31, 1893.
- 5148 POLLOT, W. and RAHLSON. Über Aalblutconjunctivitis. Graefes Arch. Ophthalmol. 78, 185, 1911.
- 5149 POPOFF. [On fish poison.] Vo.-med. Zh. Spb. 158, 65, 1887.

- 5150 PORTER, C.E. Dr. Don Frederico Puga Borne. Crón. méd. Quiv. de la Habana 62, 36, 1936.
- 5151 POSS, S.G. and ESCHMEYER, W.N. Protoproctus pataecus, a new genus and species of velvetfish from the South China Sea (Aploactinidae: Scorpaeniformes). Jpn. J. Ichthyol. 26, 11, 1979.
- 5152 POUYSSEGUR, J., JACQUES, Y. and LAZDUNSKI, M. Identification of a tetrodotoxin sensitive sodium channel in a variety of fibroblast lines. Nature 286, 162, 1980.
- 5153 PRABHU, V.G. and OESTER, Y.T. Abolition by tetrodotoxin of the spontaneous fibrillation potentials of denervated skeletal muscle of rabbit. An in vivo comparative electromyographic study. Arch. Intern. Pharmacodyn. Ther. 208, 255, 1974.
- 5154 PRIMOR, N. and TU, A.T. Confirmation of pardaxin, the purified polypeptide from the toxic secretions of the flatfish Pardachirus marmoratus studied by laser raman spectroscopy and circular dichroism. In, Natural Toxins. Eaker, D. and Wadström, T. (eds.), Pergamon: Oxford, p. 493, 1980; see also Toxicon 17 (Suppl. 1), 143, 1979 (Abst.).
- 5155 PRIMOR, N. and ZLOTKIN, E. On the ichthyotoxic and hemolytic action of the skin secretion of the flatfish Pardachirus marmoratus (Soleidae). Toxicon 13, 227, 1975.
- 5156 PRIMOR, N. and ZLOTKIN, E. The toxic and antitoxic factors derived from the skin secretion of the flatfish Pardachirus marmoratus (Soleidae). In, Animal, Plant and Microbial Toxins. (Ohsaka, A., Hayashi, K. and Sawai, Y., eds.), Plenum: N.Y., p. 287, 1976.
- 5157 PRIMOR, N. and ZLOTKIN, E. On the chemistry and action of Pardaxin. Toxicon 17 (Suppl. 1), 145, 1979 (Abst.).
- 5158 PRIMOR, N., PARNES, J. and ZLOTKIN, E. Pardaxin: the toxic factor from the skin secretion of the flatfish Pardachirus marmoratus (Soleidae). In, Toxins, Animal, Plant and Microbial. Rosenberg, P. (ed.), Pergamon: Oxford, p. 539, 1978; see also Toxicon 16, 138, 1978; see also Intern. Symp. Venoms, Toxins, Bombay, India, 1977 (Abst.).
- 5159 PRIMOR, N., ZARACHIA, T. and ZLOTKIN, E. On the toxic and antitoxic factors derived from the skin secretion of the flatfish Pardachirus marmoratus (Soleidae). Toxicon 13, 115, 1975.
- 5160 PRIMOR, N., ZERACHIA, T. and ZLOTKIN, E. An antitoxic factor derived from the skin secretion of the flatfish Pardachirus marmoratus (Soleidae). Toxicon 13, 183, 1975.
- 5161 PRIMOR, N., SABNAY, I., LAVIE, V. and ZLOTKIN, E. Toxicity to fish, effect on gill ATPase and gill ultrastructural changes induced by Pardachirus secretion and its derived toxin pardaxin. J. exp. Zool. 211, 33, 1980.
- 5162 PRIOLA, D.V. and SPURGEON, H.A. Mechanism of tetrodotoxin-induced cardiac depression. Fed. Proc. 34, 793, 1975.
- 5163 PROKHOROFF, P. [On the poisonous character of certain lampreys.] Vrach, St. Petersburg 5, 54, 1884.
- 5164 PROSVIROV, E. [Poisonous and Dangerous Fish.] Kaliningrad Publ., 80p., 1963.
- 5165 PRYOR, J.C. Marine animal life dangerous to man. In, Naval

- Hygiene. Blackiston: Philadelphia, p. 309, 1918.
- 5166 PUCCINELLI, E. Sulle proprietà antigeni del siero di anguilla formolato. Pathologica 23, 531, 1931.
- 5167 PULL, I. and MCILWAIN, H. Output of cadenine nucleotides and their derivatives from cerebral tissues. Tetrodotoxin-resistant and calcium ion-requiring components. Biochem. J. 136, 893, 1973.
- 5168 PULLMAN, T.N., LAVENDER, A.R. and AHO, I. Effects of tetrodotoxin on the mammalian kidney. Proc. natn. Acad. Sci. 60, 822, 1968.
- 5169 QUIGUER, J.P. Les poissons à "toxicité variable" en Nouvelle-Calédonie. Cahiers du Pac. (11), 129, 1967.
- 5170 QUIROZ, A.D. La fauna ponzoñosa del Valle del Rimac. Anal. Fac. Med. 50, 105, 1967.
- 5171 RALLS, R.J. and HALSTEAD, B.W. Moray eel poisoning and a preliminary report on the action of the toxin. Am. J. trop. Med. Hyg. 4, 136, 1953.
- 5172 RANDALL, J.E. Fishes of the Gilbert Islands. Atoll Res. Bull., Pac. Sci. Bd. (47), 243p., 1955.
- 5173 RANDALL, J.E. A review of ciguatera, tropical fish poisoning, with a tentative explanation of its cause. Bull. Mar. Sci., Gulf Caribb. 8, 236, 1958.
- 5174 RANDALL, J.E. Notes on the groupers of Tahiti. Pac. Sci. 18, (3), 1964.
- 5175 RANDALL, J.E. Marine algae as a possible source of ciguatera toxins. S. Pac. Comm., 1968.
- 5176 RANDALL, J.E. and KANAYAMA, R.K. Hawaiian fish immigrants. Sea Frontiers Mag. 18, 144, 1972.
- 5177 RANDALL, J.E., AIDA, K., HIBIYA, T. et al. Grammistin, the skin toxin of soapfishes and its significance in the classification of the Grammistidae. Publ. Seto Mar. Biol. Lab. 19, 157, 1971.
- 5178 RANNEY, B.K. and FUHRMAN, F.A. The pharmacology of 2-imino-5-benzoyloxy-hexahydropyrimidine. Proc. west. Pharmacol. Soc. 11, 54, 1968.
- 5179 RANNEY, B.K., FUHRMAN, F.A., SCHMIEGEL, J.L. and MOSHER, H.S. The pharmacological actions of some guanidine esters and their relationship to tetrodotoxin. Arch. intern. Pharmacodyn. 175, 193, 1968.
- 5180 RATHMAYER, S. Gifte als Werkzeuge. Herkunft und Wirkungsweise wichtiger toxine und ihre anwendung in der forschung. In, Biologie Aktuell. Boger, P. and Sund, H. (eds.), Universitätsverlag: Konstanz, p. 95, 1978.
- 5181 RATZ, S., VON. Fischvergiftung beim Löffelreiher. Mh. prakt. Tierheilk. 5, 11, 1893-94.
- 5182 RAYNER, M.D. Ciguatoxin: muscle membrane actions of an ecological precursor. In, Proceedings of Food/Drugs from the Sea Conference, 1969. Youngken, H.W. (ed.), Mar. Tech. Soc.: Washington, p. 345, 1970.
- 5183 RAYNER, M.D. Ciguatoxin: muscle membrane actions of a possible ecological precursor. Pharmacologist 12, 546, 1970 (Abst.).
- 5184 RAYNER, M.D. The mode of action of ciguatoxin. Fed. Proc. 31, 1139, 1972.

- 5185 RAYNER, M.D. and OSHIKA, H. Preliminary studies on the mechanism of action of ciguatoxin. Abstracts of 4th Intern. Cong. Pharmacol., Basel, Switzerland, p. 440, 1969.
- 5186 RAYNER, M.D. and SZEKERCZES, J. Ciguatoxins effects on the sodium potassium activated adenosine triphosphatase of human erythrocyte ghosts. Toxicol. appl. Pharmacol. 24, 489, 1973.
- 5187 RAYNER, M.D., BASLOW, M.H. and KOSAKI, T.J. Marine toxins from the Pacific—ciguatoxins: not an in vivo anticholinesterase. J. Fish. Res. Bd. Can. 26, 2208, 1969.
- 5188 RAYNER, M.D., KOSAKI, T.J. and FELLMETH, E.L. Ciguatoxins: more than an anticholinesterase. Science 160, 70, 1968.
- 5189 READ, B.E. Chinese Materia Medica: Turtle and Shellfish Drugs. Nat. Hist. Bull.: Peking, 93p., 1937.
- 5190 READ, B.E. Chinese Materia Medica: Fish Drugs. Peking Nat. Hist. Bull.: Peking, 136p., 1939.
- 5191 RECH, R.H., MC CARTHY, L.E. and BORISON, H.L. Electroencephalogram after intracerebroventricular tetrodotoxin in cats. Proc. Soc. exp. Biol. 116, 434, 1964.
- 5192 REDER, R.F., DANILO, P. and ROSEN, M.R. Age-related changes in effects of tetrodotoxin on cardiac purkinje fibers. Fed. Proc. 38, 808, 1979 (Abst.).
- 5193 REDDINGTON, M., RODNIGHT, R. and WILLIAMS, M. Turnover of protein-bound serine phosphate in respiring slices of guinea-pig cerebral cortex. Effects of putative transmitters, tetrodotoxin and other agents. Biochem. J. 132, 475, 1973.
- 5194 REED, C.T. Marine Life in Texas Waters. Anson Jones Press: Houston, p. 15, 1941; see also Tex. Acad. Sci. Publ. nat. Hist., Oct. 1941.
- 5195 REED, J.K. and RAFTERY, M.A. Properties of the tetrodotoxin binding component in plasma membranes isolated from Electrophorus electricus. Biochem. J. 11, 944, 1976.
- 5196 REGAN, C.T. Report on poisonous fishes of the West Indies. Barbados official Gaz., June 5, p. 1111, 1916.
- 5197 REGY, U.G., TILVE, G.H., JUVALE, N.J., JAYAKAR, V.V. and NAIR, K.G. Ciguatera (a variety of fresh fish poisoning) (a case report). J. Postgrad. Med. 25, 112, 1979.
- 5198 REICHARD, C. [Animal poisons.] Pharm. Zentral. 54, 1099, 1913.
- 5199 REMLINGER, P. and BAILLY, J. Propriétés neurotoxiques du sérum de thon (Orcynnus thynnus). C.R. Soc. Biol. 103, 516, 1930.
- 5200 RÉMY, C. Sur les poissons toxiques du Japon. Mém. Soc. Biol. Paris 35, 1, 1883.
- 5201 RÉMY, C. Note sur les poissons toxiques du Japon. C.R. Soc. Biol. 4, 263, 1883.
- 5202 RÉMY, C. Sur les poissons toxiques du Japon. C.R. Soc. Biol. 5, 3, 1883.
- 5203 RENAMBOT, J. and BAGNIS, R. L'électrocardiogramme au cours des intoxications par la chiaie de poissons vénéneux (ciguatera).

- Bull. Soc. Pathol. exot. 67, 322, 1974.
- 5204 RHO, F. Intossicamento da ingestione di pesci velenosi. Malar. Mal. Paesi caldi. 2, 569, 1396.
- 5205 RICHARD. Étude sur les intoxications alimentaires. Thèse, Fac. Méd., Paris 403, 20, 1900.
- 5206 RICHARDSON, B.W. Fish-poisoning and the disease "siguatera." Asclepiad, London 10, 39, 1893.
- 5207 RICHARDSON, J. On the poisonous effect of a small portion of the liver of a Diodon inhabiting the seas of southern Africa. J. Linn. Soc. London 5, 213, 1861.
- 5208 RITCHIE, J.M. Tetrodotoxin and saxitoxin and the sodium channels of excitable tissue. Trends pharmacol. Sci., p. 275, June 1980.
- 5209 RITCHIE, J.M. Mechanism of action of local anaesthetic agents and biotoxins. Br. J. Anaesth. 47, 191, 1975.
- 5210 RITCHIE, J.M. Binding of tetrodotoxin and saxitoxin to sodium channels. Phil. Trans. Roy. Soc. London 270, 319, 1975.
- 5211 RITCHIE, J.M. and ROGART, R.B. The binding of saxitoxin and tetrodotoxin to excitable tissue. Rev. Physiol. Biochem. Pharmacol. 79, 1, 1977.
- 5212 RITCHIE, J.M., ROGART, R.B. and STRICHARTZ, G. Binding to nerve and muscle of saxitoxin labelled by a new method of tritium exchange. J. Physiol. 258, 99, 1976.
- 5213 ROBERTS, B.S. Occurrence of Gymnodinium breve red tides along the west and east coasts of Florida during 1976 and 1977. In, Toxic Dinoflagellate Blooms. (Proc. 2nd Intern. Conf.), Taylor, D.L. and Seliger, H.H. (eds.), Elsevier/North-Holland: N.Y., vol. 1, p. 199, 1979.
- 5214 ROCCA, E. and GHIRETTI, F. A toxic protein from eel serum. Toxicon 2, 79, 1964.
- 5215 ROCHAS, V. DE. Essai sur la topographie hygiénique et médicale de la Nouvelle-Calédonie. Thèse, Fac. Méd., Paris 250, 7, 1860.
- 5216 ROCHAS, V. DE. La Nouvelle-Calédonie et ses Habitants. F. Sartorius: Paris, p. 64, 1862.
- 5217 ROGERS, J.M. West Indian poisonous fishes. Pop. Sci. Month. 55, 680, 1899.
- 5218 ROJAS, E. and ATWATER, I. Effect of tetrodotoxin on the early outward currents in perfused giant axons. Proc. Nat. Acad. Sci. 57, 1350, 1967.
- 5219 ROMANO, S. Animali velenosi della fauna italiana. Natura (Milano) 31, 137, 1940.
- 5220 ROMEY, G., JACQUES, Y., SCHWEITZ, H., FOSSET, M. and LAZDUNSKI, M. The sodium channel in non-impulsive cells. Interaction with specific neurotoxins. Biochim. Biophys. Acta 556, 344, 1979.
- 5221 RONQUILLO, L.A. and CACESBORJA. [Turtle poisoning.] Philipp. J. Fish. 8, 119, 1960.
- 5222 ROSEN, M.R. and DANILO, P., JR. Effects of tetrodotoxin, lidocaine, verapamil, and AHR-2666 on ouabain-induced delay after depolarizations in canine Purkinje fibers. Circ. Res. 46, 117, 1980.
- 5223 ROSS, S.G. Preliminary report on fish poisoning at Fanning Island

- (Central Pacific). Med. J. Aust. 2, 617, 1947.
- 5224 ROUGHLEY, T.C. Bounty descendants live on remote Norfolk Island. Nat. Geogr. Mag. 118, 599, 1960.
- 5225 RCUX, JR. Des poissons vénéneux, à propos de la relation d'un empoisonnement observé par le docteur Casquet dans la Nouvelle-Calédonie. France Méd. Pharmaceut. 7, 258, 1860.
- 5226 RUGGIERI, G.D. Drugs from the sea. Marine organisms with novel chemical constituents are excellent sources of new drugs. Science 194, 491, 1976.
- 5227 RUMP, S. and RABSZTYN, T. Effects of some veratrine-like agents on the muscular blocking action of tetrodotoxin. Toxicon 15, 521, 1977.
- 5228 RUSSELL, F.E. Poisonous fishes. Eng. & Sci. 15, 11, 1952.
- 5229 RUSSELL, F.E. Marine toxins and venomous and poisonous marine animals. In, Advances in Marine Biology. Russell, F.S. (ed.), Academic: London, vol. 3, p. 304, 1965.
- 5230 RUSSELL, F.E. Venomous and poisonous marine animals and their toxins. First Inter-Amer. Naval Res. Conf., San Juan, Puerto Rico, 27p., July 1965.
- 5231 RUSSELL, F.E. Toxic marine animals. Naval Res. Rev. 19, 20, 1966.
- 5232 RUSSELL, F.E. Comparative pharmacology of some animal toxins. Fed. Proc. 26, 1206, 1967.
- 5233 RUSSELL, F.E. Pharmacology of animal venoms. Clin. Pharm. Ther. 8, 849, 1967.
- 5234 RUSSELL, F.E. Poisonous marine animals. In, The Safety of Foods. Graham, H.D. (ed.), Avi Publ.: Westport, Conn., p. 68, 1968.
- 5235 RUSSELL, F.E. Poisons and venoms. In, Fish Physiology. Hoar, W.S. and Randall, D.J. (eds.), Academic: N.Y., vol. 3, p. 401, 1969.
- 5236 RUSSELL, F.E. Pharmacology of toxins of marine organisms. In, International Encyclopedia of Pharmacology and Therapeutics. Raskova, H. (ed.), Pergamon: Oxford, Sect. 71, vol. 2, p 3, 1971.
- 5237 RUSSELL, F.E. Poisonous Marine Animals. T.F.H. Publ.: Neptune City, N.J., 176p., 1971.
- 5238 RUSSELL, F.E. Prevention and treatment of venomous animal injuries. Experientia 30, 8, 1974.
- 5239 RUSSELL, F.E. Poisonous and venomous marine animals and their toxins. Ann. N.Y. Acad. Sci. 245, 57, 1975.
- 5240 RUSSELL, F.E. Animal venoms. In, Practice of Medicine. Wolber, P.G.H. (ed.), Harper & Row: Hagerstown, Md., vol. IX, chap. 30, p. 1, 1975.
- 5241 RUSSELL, F.E. Ciguatera poisoning: a report of 35 cases. Toxicon 13, 383, 1975.
- 5242 RUSSELL, F.E. Venomous bites and stings. In, The Merck Manual. 13th edit., Berkow, R. (ed.), Merck, Sharp & Dohme Res. Lab.: Rahway, N.J., chap. II, p. 1982, 1977.
- 5243 RUSSELL, F.E. Venom poisoning: snakes, arthropods and marine animals. Emergency Medicine Symposium III, Univ. Calif., San Diego, 1978-.

- 5244 RUSSELL, F.E. Hazardous marine life. Part I: venomous marine animals. Hyperb. Undersea Med. 1, 1, 1978.
- 5245 RUSSELL, F.E. and BRODIE, A.F. Venoms. In, Encyclopedia of Chemistry. Hampel, C.A. and Hawley, C.G. (eds.), Van Nostrand Reinhold: N.Y., p. 1139, 1973.
- 5246 RUSSELL, F.E. and BRODIE, A.F. Toxicology: venomous and poisonous marine animals. In, Experimental Marine Biology. Mariscal, R.N. (ed.), Academic: N.Y., chap. 7, p. 269, 1974.
- 5247 RUSSELL, F.E. and CARLSON, R.W. Marine organisms. In, Biology Data Book. Altman, P.L. and Dittmer, D.S. (eds.), F.A.S.E.B.: Washington, D.C., p. 726, 1973.
- 5248 SACHS, H.G., MCDONALD, T.F. and DEHAAN, R.L. Tetrodotoxin sensitivity of cultured embryonic heart cells depends on cell interactions. J. Cell Biol. 56, 255, 1973.
- 5249 SAITO, M., OSONO, T., YAMAMOTO, T. et al. Studies on Minamata disease. I. Establishment of the criterion for etiological research in mice. Jpn. J. exp. Med. 31, 277, 1961.
- 5250 SAITO, T. Chemical and pharmacological studies on globefish poison. I. R_f values of the poisonous components of globefish (Spherooides rubripes) livers. Bull. Yamaguchi med. Sch. 8, 39, 1961.
- 5251 SAKAI, F., SATO, A. and URAGUCHI, K. Über die Atemlahmung durch Tetrodotoxin. Arch. exp. Path. Pharmacol. 240, 313, 1961.
- 5252 SAKAI, M., KIMURA, T., SHINANO, H. et al. Studies on a food poisoning caused by the roe of "nagazuka" (Stichaeus grigorjewi Herzenstein). I. Toxicity of the roe of "nagazuka." J. Food Hyg. Soc. Jpn. 5, 420, 1964.
- 5253 SAKAI, M., KIMURA, T., SHINANO, H. et al. Studies on a food poisoning caused by the roe of "nagazuka" (Stichaeus grigorjewi Herzenstein). III. Antigenicity of the toxic substance and experimental therapy-test for mice inoculated with the toxic substance. J. Food Hyg. Soc. Jpn. 5, 433, 1964.
- 5254 SAKURANE, K. [Concerning the value of treatment with puffer poison.] Osaka med. Assoc. Mag. 10, 1172, 1911.
- 5255 SAKURANE, K., KIKKAWA, T. and YAMASAKI, S. [Application of tetrodotoxin (fugu poison) for a tetanus patient.] Chugai Iji Shimpō 758, 1369, 1899.
- 5256 SALANOUÉ-IPIN, H. Étude sur un tétrodon vulnéant du Cambodge. Thèse, Fac. Méd. Pharm., Bordeaux 20, 1, 1889.
- 5257 SASAOKA, T. Effects of tetrodotoxin on neuromuscular junction and on nerve fibers. J. Osaka City med. Ctr. 9, 4745, 1960.
- 5258 SATO, M. [Blood serum of the eel.] Biseibutsugak. ukai Zasshi. (5), 263, 1917.
- 5259 SATOH, K., YANAGISAWA, T. and TAIRA, N. Effects of atrioventricular conduction and blood flow of enantiomers of verapamil and of tetrodotoxin injected into the posterior and the anterior septal artery of the atrioventricular node preparation of the dog. Arch. Pharmacol. 308, 89, 1979.
- 5260 SAVTSCHENKO, P.N. [Poisoning by fish.] Med. Pribavl. Morsk. Sborniku, St. Petersburg 9, 55, 1882.

- 5261 SAYTSCHENKO, P.N. [An Atlas of Poisonous Fishes: Symptoms Produced by Them and Therapeutic Agents.] V.S. Balashev: St. Petersburg, 55p., 1886.
- 5262 SAWAYA, P. A secreção das glândulas cutâneas de Siphonops annulatus. Univ. São Paulo Bol. Fac. filos., cien. letras zool. 4, 207, 1940.
- 5263 SCHANTZ, E.J. Seafood toxicants. In, Toxicants Occurring Naturally in Foods. Nat. Acad. Sci.: Washington, p. 424, 1973.
- 5264 SCHANTZ, E.J. Some toxins occurring naturally in marine organisms. In, Microbial Safety of Fishery Products. Chichester, C.O. and Graham, H.D. (eds.), Academic: N.Y., p. 151, 1973.
- 5265 SCHEUER, P. J. Pahutoxin—a fish poison. Science 155, 52, 1967.
- 5266 SCHEUER, P.J. The chemistry of toxins isolated from marine organisms. Fortschr. Chem. org. Naturst. 27, 265, 1969.
- 5267 SCHEUER, P.J. Toxins from fish and other marine organisms. Adv. Food Res. 18, 141, 1970.
- 5268 SCHEUER, P.J. Alkaloids containing a seven-membered oxygen ring. In, Heterocyclic Compounds. Rosowsky, A. (ed.), Wiley-Interscience: N.Y., vol. 26, p. 560, 1972.
- 5269 SCHEUER, P.J. Chemistry of Marine Natural Products. Academic: N.Y., 1973.
- 5270 SCHEUER, P.J. Recent developments in the chemistry of marine toxins. Lloydia 38, 1, 1975.
- 5271 SCHEUER, P.J. Marine toxins. Account. chem. Res. 10, 33, 1977.
- 5272 SCHEUER, P.J. Chemical communication of marine invertebrates. BioScience 27, 664, 1977.
- 5273 SCHEUER, P.J., editor. Marine Natural Products: Chemical and Biological Perspectives. 4 vols., Academic: N.Y., 1978-1981.
- 5274 SCHEUER, P.J., TAKAHASHI, W., TSUTSUMI, J. and YOSHIDA, T. Ciguatera: isolation and chemical nature. Science 155, 1267, 1967.
- 5275 SCHIEBLER, W., STENGELIN, S. and HUCHO, F. Neurotoxins as tools for biochemical characterization of ion channels. In, Natural Toxins. Eaker, T. and Wadström, D. (eds.), Pergamon: N.Y., p. 703, 1980.
- 5276 SCHMIDT, N. Zur Frage über die Natur des Fischgiftes und dessen Wirkung auf den menschlichen und thierischen Organismus. Verh. Int. Congr. Med., 10th, Berlin 2, 43, 1890.
- 5277 SCHNAKENBECK, W. Fischgifte und Fischvergiftungen. Münch. med. Wschr. 90, 149, 1943.
- 5278 SCHNECK, H. An unusual clinical syndrome following ingestion of fish. Am. J. Digest. Dis. 12, 347, 1945.
- 5279 SCHREIBER, J. Ueber Fischvergiftung. Berl. klin. Wschr. 21, 161, 183, 1884.
- 5280 SCHULTZ, L.P. Treasures of the Pacific. Nat. Geogr. Mag. 74, 466, 485, 1938.
- 5281 SCHUSTER. Ein Fall von Vergiftungserscheinungen, das eine Mal nach dem Genuss von Miesmuscheln, das andere Mal von Bücklingen. Deut. Med. Wschr. 12, 304, 1886.

- 5282 SCHWARTZ, L. and TABERSHAW, I.R. Dermatitis in the fish industry. J. Indust. Hyg. Toxicol. 27, 1945; see also U.S. Fish Wildl. Serv., Fish. Leafl. (124), 1945.
- 5283 SCHWARTZ, L. and TULIPAN, L. The fish industry. In, Occupational Diseases of the Skin. Lea & Febiger: Philadelphia, p. 603, 1939.
- 5284 SCHWEISHEIMER, W. Fish handling hazards. Can. Fish. 54, 27, 1964.
- 5285 SCHWENG, E. Giftige Fische. Nachrichtbl. Aquar. Terrar. 164, 1935.
- 5286 SCHWIMMER, D. and SCHWIMMER, M. Algae and medicine. In, Algae and Man. Jackson, D. (ed.), Plenum: N.Y., p. 368, 1964.
- 5287 SCHWIMMER, D. and SCHWIMMER, M. Medical aspects of phycology. In, Algae, Man and the Environment. Jackson, D. (ed.), Syracuse Univ. Press: Syracuse, N.Y., p. 279, 1968.
- 5288 SCHWIMMER, M. and SCHWIMMER, D. The Role of Algae and Plankton in Medicine. Grune & Stratton: N.Y., 85p., 1955.
- 5289 SCOFONE, L. Sulla presenza nel sangue di sostanze tossiche iniettate nell'organismo. Ricerche sui sieri di anguilla e di tinca. Gior. Accad. Med. Torino 67, ser. 4, 10, 618, 1904.
- 5290 SCOFONE, L. and BUFFA, E. Action du sérum de quelques animaux sur les poissons. Recherches expérimentales. Arch. ital. Biol. 33, 367, 1900; see also Giorn. Roy. Accad. Med. 63, 1900.
- 5291 SCOTT, E.O.G. First Tasmanian record of the Gulf gurnet perch, Neosebastes panticus McCulloch & Waite, 1918 (Scorpaenidae), with reports of poisoning by this species and some other Tasmanian fishes. Aust. Zool. 15, 234, 1970.
- 5292 SCOTT, H.H. Vegetal and fish poisoning. In, The Practice of Medicine in the Tropics. Byam, W. and Archibald, R.G. (eds.), Frowde, Hodder & Stoughton: London, vol. 1, p. 790, 1921.
- 5293 SCOTT, J. The poisonous or toad fish of Van Diemen's Land. Hobart Town Almanac, p. 89, 1832.
- 5294 SCOTT, T.D., Glover, J.M. and Southcott, R.V. The Marine and Freshwater Fishes of South Australia. A.B. James: S. Australia, 392p., 1974.
- 5295 SEALE, A. Philippine fishes which are poisonous. Bull. Manila med. Soc. 2, 96, 1910.
- 5296 SEALE, A. Some poisonous Philippine fishes. Philipp. J. Sci. 7, 289, 1912.
- 5297 SEALE, A. Poisonous fishes of the Philippine Islands. Bull. Philipp. Bur. Hlth. 9, 3, 1912.
- 5298 SELLIER, J. Action antiprotéolytique du sérum sanguin des animaux inférieurs (poissons et quelques types d'invertébrés). C.R. Soc. Biol. 57, 628, 1905.
- 5299 SERIN, J. Contribution a l'étude des sérums toxiques (sérum d'anguille et sérum de torpille). Recherches sur la polynée toxique. Thèse, Fac. Méd., Paris 346, 1, 1910.
- 5300 SERIN, J. and GAILLARDOT, R. De la polynée par les sérums toxiques (sérums d'anguille et de torpille). C.R. Soc. Biol. 69, 22, 1910.

- 5301 SETLIFF, J.A., RAYNER, M.D. and HONG, S.K. Effects of ciguatera toxin on Na transport across the frog skin. Physiologist 12, 353, 1969; see also Toxicol. appl. Pharmacol. 18, 676, 1971.
- 5302 SEURAT, L.C. Observation du Tétragonure de Cuvier (Tetragonurus cuvieri Risso, 1810) à Tigzerts-sur-Mer (Algérie). Bull. Trav. Sta. Exper. Aquic. Pêche Castiglione, 1932 1, 61, 1933.
- 5303 SEVCIK, C. Binding tetrodotoxin to squid nerve fibers. Two kinds of receptors? J. gen. Physiol. 68, 95, 1976.
- 5304 SHIGENOVU, K. and SPERELAKIS, N. Development of sensitivity to tetrodotoxin of chick embryonic hearts with age. J. molec. Cardiol. 3, 271, 1971.
- 5305 SHIGENOVU, K. and SPERELAKIS, N. Calcium current channels induced by catecholamines in chick embryonic hearts whose fast sodium channels are blocked by tetrodotoxin or elevated potassium. Circ. Res. 31, 932, 1972.
- 5306 SHIMAZONO, J. Verhalten der Nervensubstanz bei verschiedenen Vergiftungen. Arch. Psychiat., Berlin 53, 1065, 1914.
- 5307 SHIMIZU, Y. Purification and partial characterization of toxins from poisonous clams. In, Proceedings of the First International Conference on Toxic Dinoflagellate Blooms. LoCicero, V.R. (ed.), Mass. Sci. Tech. Found.: Wakefield, Mass., p. 275, 1975.
- 5308 SHIMIZU, Y. Dinoflagellate toxins. In, Marine Natural Products: Chemical and Biological Perspectives. Scheuer, P.J. (ed.), Academic: N.Y., vol. 1, p. 1, 1977.
- 5309 SHIMMA, Y. and TAGUCHI, H. A symptomatic observation of the intoxication caused by liver of "Ishinagi" (Stereolepsis ishinagi). J. Food Hyg. Soc. Jpn. 2, 28, 1961.
- 5310 SHIMMA, Y., SHIMMA, H. and KIKUCHI, R. On liver oil of basking sharks and hammerhead sharks. Bull. Tokai Reg. Fish. Res. Lab. 53, 103, 1968.
- 5311 SHIOMI, K. and HASHIMOTO, Y. Some chemical properties of the skin toxin in coral gobies Gobiodon spp. In, Animal, Plant, Microbial Toxins. Ohsaka, A., Hayashi, K. and Sawai, Y. (eds.), Plenum: N.Y., vol. 1, p. 303, 1976.
- 5312 SHIROTA, N., FUJITA, K. and KAWAMURA, M. [Studies on the globefish poison.] Ann. Rept. Takamine Lab. 4, 45, 1952.
- 5313 SHRAGER, M.P. and PROFERA, C. Inhibition of the receptor for tetrodotoxin in nerve membranes by reagents modifying carboxyl groups. Biochim. Biophys. Acta 318, 141, 1973.
- 5314 SIEBER-SCHUMOW, N.O. Beitrag zur Fischgiftfrage; Bacillus piscicidus agilis, ein für Fische pathogener Mikroorganismus. Pharm. Z. Russland 34, 193, 209, 255, 241, 1895.
- 5315 SILVADO, J. Peixes nocivos da Bahia do Rio de Janeiro. Imprensa Nacional: Rio de Janeiro, 24p., 1911.
- 5316 SILVADO, J. Peixes normalmente nocivos. D. Bahia do Rio de Janeiro. Rev. Acad. Med. 75, 99, 1911.
- 5317 SILVA FREIRE, J.B. Peixes, moluscos e crustáceos na alimentação e sua inspecção sanitária. Oficinas Gráficas da Sociedade de Papelaria, Lda., Porto p. 284, 1939.

- 5318 SIMMONS, J.S., WHAYNE, T.F., ANDERSON, G.W. and HORACK, H.M. Global Epidemiology. J.B. Lippincott Co.: Philadelphia, 463p., 1944.
- 5319 SIMSOHN, J.S. Two cases of fish poisoning. Polyclinic 3, 111, 1887-88.
- 5320 SINDERMAN, C.J. Diseases of marine fishes. Adv. mar. Biol. 4, 1, 1966.
- 5321 SINGER, I. Comparison between tetrodotoxin effects on excitation in mammalian cardiac fibres and squid giant axons. Nature 215, 352, 1967.
- 5322 SLUNIN, N.V. [On the poisonous fishes of the Mediterranean Sea.] Med. Pribavl. Morsk. Sborniku, St. Petersburg 1, 269, 1892.
- 5323 SMITH, J.L.B. The Sea Fishes of Southern Africa. Central News Agency: Cape Town, 550p., 1950; 580p., 1961.
- 5324 SOLOMON, S. Failure of tetrodotoxin to affect sodium transport by frog skin and proximal tubule of rat kidney. Life Sci. 8, 397, 1969.
- 5325 SOMERVILLE, J.D. Poisonous fish. S. Aust. Nat. 24, 12, 1946.
- 5326 SOROKIN, M. Fish poisoning. Fiji Sch. med. J. 2, 3, 1967.
- 5327 SOROKIN, M. Death from fish poisoning. Fiji Sch. med. J. 2, 6, 1967.
- 5328 SOROKIN, M. Medical hazards of the coral reef. Trans. Roy. Soc. trop. Med. Hyg. 69, 94, 1975.
- 5329 SOROKIN, M. Ciguatera poisoning in North-West Viti Levu, Fiji Islands. Hawaii med. J. 34, 207, 1975.
- 5330 SOUDER, P. Poisonous plants on Guam. In, Venomous and Poisonous Animals and Noxious Plants of the Pacific Region. Keegan, H.L. and MacFarlane, W.V. (eds.), Macmillan Co.: N.Y., p. 15, 1963.
- 5331 SOUTHCOTT, R.V. Venomous and poisonous fish; their identification, symptoms and treatment. Impulse (Suppl.) Sept. 1, 1973.
- 5332 SOUTHCOTT, R.V. The neurologic effects of noxious marine creatures. In, Contemporary Neurology Series. Hornabrook, R.W. (ed.), F.A. Davis: Philadelphia, Vol. 12, p. 165, 1975.
- 5333 SOUTHCOTT, R.V. Australian venomous and poisonous fishes. Clin. Toxicol. 10, 291, 1977.
- 5334 SOUTHCOTT, R.V. Marine envenomation and intoxication in man. In, Neurotoxins. Fundamental and Clinical Advances. Chubb, I.W. and Geffen, L.D. (eds.), Adelaide Univ. Union Press: Adelaide, p. 75, 1978.
- 5335 SOUTHCOTT, R.V. Marine toxins. In, Handbook of Clinical Neurology. Vinken, P.J. and Bruyn, G.W. (eds.), Elsevier/North-Holland: Amsterdam, vol. 37, part 2, p. 27, 1979.
- 5336 SPARRMAN, A. A Voyage Round the World with Captain James Cook in H.M.S. Resolution. Golden Cockerell Press: London, p. 23, 147, 167, 1944.
- 5337 SPEAR, R. Fish poisoning. Rept. Surg. Gen., U.S. Navy, p. 283, 1904.
- 5338 SPECTOR, I., KIMHI, Y. and NELSON, P.G. Tetrodotoxin and cobalt blockade of neuroblastoma action potentials. Nature (New Biol.) 246, 124, 1973.

- 5339 SPOFFORTH, J.L. A case of poisoning by eating part of a toadfish. Aust. med. Gaz. 6, 266, 1886-87.
- 5340 SPRINGFIELD, A. Über die giftige Wirkung des gemeinen Fluss-Aales, *Anguilla vulgaris*. Thesis, Greiswald, 35p., 1889.
- 5341 STAIMAN, A.L. and SEEMAN, P. Different sites of membrane action for tetrodotoxin and lipid-soluble anesthetics. Can. J. Physiol. Pharmacol. 53, 513, 1975.
- 5342 STAIMAN, A. and SEEMAN, P. Conduction-blocking concentrations of anesthetics increase with nerve axon diameter: studies with alcohol, lidocaine and tetrodotoxin on single myelinated fibers. J. Pharm. exp. Ther. 201, 340, 1977.
- 5343 STEAD, D.G. Fishes of Australia: A Popular and Systematic Guide to the Study of the Wealth Within Our Waters. W. Brooks: Sydney, 278p., 1906.
- 5344 STEFANOPOULO, G.J. Sur les propriétés antigènes des ichthyotoxines formolées. C.R. Soc. Biol. 106, 917, 1931.
- 5345 STEINBACH, E. Bericht über die Gesundheitsverhältnisse der Eingeborenen der Marshall-Inseln im Jahre 1893-94 und Bemerkung über Fischgift. Mitt. Forschung. Gelehrt. Deutsch. Schutzgeb. 8, 157, 1893.
- 5346 STEINDORFF, E. Experimentelle Untersuchungen über die Wirkung des Aalserums auf das menschliche und tierische Auge. Graefe's Arch. Ophthalmol. 88, 158, 1914.
- 5347 STEINFELD, A.D. and STEINFELD, H.J. Ciguatera and the voyage of Captain Bligh. J.A.M.A. 228, 1270, 1974.
- 5348 STEINSCHNEIDER, M. Die toxikologischen Schriften der Araber bis Ende. Arch. Path. Anat. Physiol. 52, 340, 467, 1871.
- 5349 STEPHENSON, J. Medical Zoology and Mineralogy. John Churchill: London, p. 121, 1838.
- 5350 STEVENS, H.N. New Light on the Discovery of Australia (Journal of Diego de Prado y Tabor). Hakluyt Soc.: London, p. 127, 1930.
- 5351 STEVENSON, R.L. The cruise of the Janet Nichol. N.Y., p. 90, 1914.
- 5352 STOLL, A. I Mitteilung über sieben Fälle von Fischvergiftung in der medizinischen Poliklinik Zürich. Korresp. Bl. schweiz. Arz. 33, 137, 1903.
- 5353 STRACK, E., SCHWANEBERG, H. and WANNSCHAFF, G. Über die basischen Bestandteile aus neun Aogen. Z. physiol. Chem. 247, 52, 1937.
- 5354 STRONG, P.N. and KEANA, J.F.W. Modification of tetrodotoxin with succinic anhydride. Bioorg. Chem. 5, 255, 1976.
- 5355 STRONG, P.N., SMITH, J.T. and KEANA, J.F.W. A convenient bioassay for detecting nanomolar concentrations of tetrodotoxin. Toxicon 11, 433, 1973.
- 5356 STRONG, R.P. Poisonous arthropods, fish and coelenterates. In, Stitt's Diagnosis, Prevention, and Treatment of Tropical Diseases. Blakiston: Philadelphia, vol. II, p. 1538, 1544, 1944.
- 5357 STÜVEN, V.A. La Siguatera. Union Med. Sant. Chile 4, 345, 1897.

- 5358 SUEHIRO, Y. [Practice of Fish Physiology. Poison of Globe Fish.] Tokyo Imper. Univ. Tokyo, p. 40, 1947.
- 5359 SUEHIRO, Y. [On the physiological action of the puffer fish poison.] Suisan Gakkai-ho 10, 1, 1948.
- 5360 SUEKANE, T. and YAGI, S. [Studies on the globefish poison.] Jpn. J. vet. Sci. 21, 37, 1959.
- 5361 SUENAGA, K. Verification of tetrodotoxin by instrumental analyses. Nippon Hoigaku Zasshi 32, 97, 1978.
- 5362 SUENAGA, K. and KOTOKU, S. Detection of tetrodotoxin in autopsy material by gas chromatography. Arch. Toxicol. 44, 291, 1980.
- 5363 SUIGNARD, G. Métabolisme protéique et sensibilité à la tétrodoxine des cardiomyoblastes cultivés *in vitro*. Influence de l'insuline. J. Physiol. Paris 75, 733, 1979.
- 5364 SUYAMA, M. and UNO, Y. [Puffer toxin during the embryonic development of puffer, *Fugu* (*Fugu niphobles* (J. & S.).] Bull. Jpn. Soc. Sci. Fish. 23, 438, 1957.
- 5365 SUZUKI, U. et al. Über die chemische Zusammensetzung des "Salzbreies" von Bonito ("Shio-kara"). J. Coll. Agric. Imp. Univ. Tokyo 5, 33, 1912.
- 5366 SWANSON, P.D. Effects of tetrodotoxin and ouabain on electrically stimulated cerebral cortex slices. Biochem. Pharmacol. 17, 129, 1968.
- 5367 SYLVESTER, J.R., DAMMANN, A.E. and DEWY, R.A. Ciguatera in the U.S. Virgin Islands. Mar. Fish. Rev. 39, 14, 1977.
- 5368 TACHIBANA, K. Structural studies on marine toxins. Dissertation, Univ. Hawaii, 1980.
- 5369 TAFT, C.H. Poisonous marine animals. Texas Rept. Biol. Med. 3, 339, 1945.
- 5370 TAHARA, Y. [Report of discovery of puffer toxin.] Chugai Iji Shimpō 344, 4, 1894.
- 5371 TAHARA, Y. Ueber die giftigen Bestandtheile des Tetrodon. Congr. Internat. Hyg. Demog., C.R. 1894, Budapest 3, 198, 1896.
- 5372 TAHARA, Y. [Report on puffer poison.] Yakagaku Zasshi 328, 587, 1897.
- 5373 TAHARA, Y. [Discovery of puffer poison.] Dobutsugaku Zasshi 6, 268, 1897.
- 5374 TAHARA, Y. Über das Tetrodongift. Biochem. Zschr. 30, 225, 1910.
- 5375 TAHARA, Y. Tetrodotoxin and process of extracting the same. U.S. Patent 1,058, 643, April 8, 1913, Washington, DC.
- 5376 TAKAHASHI, D. [The puffer poison.] Dobutsugaku Zasshi 5, 227, 260, 363, 1897.
- 5377 TAKAHASHI, D. and INOKO, Y. Untersuchungen über das Fugugift. Centralbl. Med. Wiss. 27, 529, 881, 1889.
- 5378 TAKAHASHI, D. and INOKO, Y. Experimentelle Untersuchungen über das Fugugift. Arch. exp. Path. Pharmacol. 26, 401, 1890.
- 5379 TAKAHASHI, D. and INOKO, Y. [Experimental investigation on the toxic substance in the body of fugu (tetrodon).] Chugai Iji Shimpō 283, 5; 284, 12; 285, 18, 1892.

- 5380 TAKAHASHI, D. and INOKO, Y. [Localization of poison in the body of Tetrodon.] Sei-i-kwai Med. J. 11, 46, 81, 1892; see also Mitt. Med. Fak. Univ. Tokyo 1, 375, 1892.
- 5381 TAKATA, M., MOORE, J.W., KAO, C.Y. and FUHRMAN, F.A. Blockage of sodium conductance increase in lobster giant axon by tarichatoxin (tetrodotoxin). J. gen. Physiol. 19, 977, 1966.
- 5382 TAKEUCHI, T., MORIKAWA, N., MATSUMOTO, H. and SHIRAI-SHI, Y. A pathological study of Minamata disease in Japan. Acta Neuro-pathol. 2, 40, 1962.
- 5383 TAKEUCHI, T., KAMBARA, T., MORIKAWA, N., SHIRAI-SHI, Y. and ITO, H. Pathologic observations of the Minamata disease. Acta Pathol. Jpn. (Suppl.) 9, 769, 1959.
- 5384 TAKIGUCHI, I. [A good example of treatment of nervous asthma with tetrodotoxin.] Chiryō Yakuho 387, 23, 1934.
- 5385 TANAKA, S. [Some lutjanid fish supposed to be poisonous.] Dobutsugaku Zasshi 26, 412, 1915.
- 5386 TANAKA, S. [The poisonous fish.] Dobutsugaku Zasshi 26, 516, 1914.
- 5387 TANGE, Y. Beitrag zur Kenntnis der Morphologie des Giftapparates bei den japanischen Fischen, nebst Bemerkungen über dessen Giftigkeit. I. Über das Vorkommen des Giftapparates bei den japanischen Knochenfischen. Yokohama med. Bull. 4, 120, 1933.
- 5388 TANI, I. [Seasonal changes and individual differences of puffer poison.] Nippon Yakubutsugaku Zasshi 29, 1, 1940.
- 5389 TANI, I. [Poison of Sphaeroides ocellatus (Osbeck) and Sphaeroides chrysops (Hilgendorf).] Nippon Yakubutsugaku Zasshi 31, 1, 1941.
- 5390 TANI, I. [A Study of the Toxicity of Japanese Fugu.] Teikoku Toshō Tokyo, 1943.
- 5391 TANI, I. [Toxicological studies on Japanese puffers.] Teikoku Toshō Kabushiki Kaisha 2, 1, 1943.
- 5392 TANINO, H., INOUE, S., ARATANI, M. and KISHI, Y. Synthetic studies on tetrodotoxin and related compounds-V. The protecting group of the C9-hydroxy group (intramolecular substitution reaction; Axyloxy group; monacetylguanidino group). Tetrahedron Lett. 4, 335, 1974.
- 5393 TANNER, F.W. and TANNER, L.P. Foodborne Infections and Intoxications. 2nd edit., Garrard Press: Champaign, Ill., p. 119, 1953.
- 5394 TANZ, R.D. Pharmacology of aconitine-induced automaticity on in vitro cat myocardial preparations. II. Effects of refractory period prolongation, reduced sodium and tetrodotoxin. J. Pharmacol. exp. Ther. 191, 232, 1974.
- 5395 TAPU, J. Liste des espèces de poissons toxiques les plus souvent signalés comme étant à l'origine des intoxications en Polynésie. Papeete, Inst. Recher. Méd. Poly. Fr., Rapp. tech. (3), 1964.
- 5396 TARBY, T.J., COSTIN, A. and ADEY, W.R. Effects of tetrodotoxin on impedance in normal and asphyxiated cerebral tissue. Exp. Neurol. 22, 517, 1968.
- 5397 TARR, M., MAAS, H.G. and TRANK, J. Effects of manganese and tetrodotoxin on two inward

- currents in cardiac muscle. Physiologist 12, 371, 1969.
- 5398 TATEYAMA, T. [Biochemical study of the puffer poison.] Fukuoka Acta Med. 35, 71, 1942.
- 5399 TATNALL, F.M., SMITH, H.G., WELSBY, P.D. and TURNBULL, P.C. Ciguatera poisoning. Br. med. J. 281, 948, 1980.
- 5400 TAWARA, R. [On the poisonous substance in tetrodon.] Chugai Iji Shimpō 344, 4, 1894.
- 5401 TAWARA, Y. On the poisonous principles of tetrodon. J. Pharm. Soc. Jpn. 29, 587, 1909.
- 5402 TAWARA, Y. [Studies on globefish poison.] J. Pharm. Soc. Jpn. 29, 587, 1909.
- 5403 TAWARA, Y. [Investigation of crystalline substances which have no nitrogen, in purification of tetrodotoxin.] J. Pharm. Soc. Jpn. 31, 677, 1911.
- 5404 TAYLOR, F.J.R. A description of the benthic dinoflagellate associated with maitotoxin and ciguatera toxin, including observations on Hawaiian material. In, Toxic Dinoflagellate Blooms. (Proc. 2nd Intern. Conf.), Taylor, D.L. and Seliger, H.H. (eds.), Elsevier/North-Holland: N.Y., vol. 1, p. 71, 1979.
- 5405 TAYLOR, H.G. The toad fish. Walkabout 17, 46, 48, 1951.
- 5406 TAYLOR, H.G. The toad fish. Field & Stream, p. 38, Oct. 1952.
- 5407 TAZIEFF-DEPIERRE, F. Action of tetrodotoxin on the cardiotoxicity of scorpion venom Androctonus australis. C.R. Hebd. Seanc. Acad. Sci. Ser. Sci. Nat. (Paris) 273, 915, 1971.
- 5408 TCHISTOVITCH, T. Études sur l'immunisation contre le sérum d'anguilles. Ann. Inst. Pasteur 13, 406, 1899.
- 5409 TENISON-WOODS, J.E. Fish and Fisheries of New South Wales. Thomas Richards: Sydney, p. 30, 1882.
- 5410 TEYTAUD, A.P. and BRODY, R.W. Information summary on ciguatera or tropical fish poisoning. Virgin Isl. Ecol. Res. Sta., Oct. 1971.
- 5411 THOMPSON, L. Southern Lau, Fiji: an ethnography. Bernice P. Bishop Mus. Bull. 162, 137, 1940.
- 5412 THOMSON, C. Untersuchungen eines aus Westafrika stammenden Fischgiftes. Thesis, Dorpat, 1882.
- 5413 THOMSON, D.A. A histological study and bioassay of the toxic stress secretion of the boxfish (Ostracion lentiginosus). Thesis, Univ. Hawaii, 1963.
- 5414 THOMSON, D.A. Ostracitoxin: an ichthyotoxic stress secretion of the boxfish Ostracion lentiginosus. Science 146, 244, 1964.
- 5415 THOMSON, D.A. Toxic stress secretions of the boxfish Ostracion meleagris Shaw. Copeia (2), 335, 1969.
- 5416 TIKHOMIROV, V.M. [On noxious fishes and fish poison.] Farmatsvet 9, 313, 1897.
- 5417 TINKER, S.W. Hawaiian Fishes. Tongg Publ. Co.: Honolulu, 444p., 1944.
- 5418 TITCOMB, M. Mysterious case of the poisoned fish. Paradise of Pacific 57, 21, 27, 29, 1945.
- 5419 TITCOMB, M. and PUKUI, M.K. Native use of fish in Hawaii. J.

- Polynes. Soc. (Mem. 29), 60, 30, 1951; see also Native Use of Fish in Hawaii. Avery Press: New Plymouth, New Zealand, 162p., 1952.
- 5420 TOMIE, Y., FURUSAKI, A., KASAMI, K. et al. The crystal and molecular structure of bromoanhydrotetrodoic lactone hydrobromide, a derivative of tetrodotoxin. Tetrahedron Lett. 30, 2101, 1963.
- 5421 TONGE, J.I., BATTEY, Y. and FORBES, J.J. Ciguatera poisoning. Med. J. Aust. 2, 1083, 1967.
- 5422 TONGE, J.I., BATTEY, Y., FORBES, J.J. and GRANT, E.M. Ciguatera poisoning: a report of two outbreaks and a probable fatal case in Queensland. Med. J. Aust. 2, 1083, 1967.
- 5423 TONIMI, M., LECCHINI, S., FRIGO, G. and CREMA, A. Action of tetrodotoxin on spontaneous electrical activity of some smooth muscle preparations. Europ. J. Pharmacol. 29, 236, 1974.
- 5424 TORDA, T.A., SINCLAIR, E. and ULYATT, D.B. Puffer fish (Tetrodotoxin) poisoning: clinical record and suggested management. Med. J. Aust. 1, 999, 1973.
- 5425 TORO-GOYCO, E., SANTOS, J., KOSERSKY, D.S. and HARRIS, L.S. Soapfish toxin: chemical and pharmacological studies. Fed. Proc. 31, 1963, 1972.
- 5426 TORO-GOYCO, E., SANTOS-MARTINEZ, E., KOSERSKY, S. and HARRIS, L.S. Rypitisin - the active principle of the soapfish toxin. Biochem. Pharmacol. 22, 1817, 1973.
- 5427 TOYOSHIMA, T. [Serological study of the toxin of the fish Plotosus anguillaris Lacépède.] J. Jpn. Protozool. Soc. 6, 45, 1918.
- 5428 TSUCHIYA, Y. and NOMURA, T. Formation du verdoha emochrome par les poissons—II. Repartition du degré de formation dans divers tissus animaux et dans les cellules hépatiques chez Cololabis saira. Bull. Jpn. Soc. scient. Fish. 34, 205, 1968.
- 5429 TSUDA, K. Über Tetrodotoxin, Giftstoff der Bowfische. Naturwissenschaften 53, 171, 1966.
- 5430 TSUDA, K. [Puffer toxin, tetrodotoxin.] Kagaku 34, 630, 1964.
- 5431 TSUDA, K. [Puffer toxin, tetrodotoxin.] Kagaku to Seibutsu 2, 42, 1964.
- 5432 TSUDA, K. [Structure of puffer toxin.] Kagaku no Ryoiki (Suppl.) 80, 9, 1967.
- 5433 TSUDA, K. and KAWAMURA, M. The constituents of the ovaries of globefish. I. The isolation of meso-inositol and scillitol from the ovaries. J. pharm. Soc. Jpn. 70, 432, 1950.
- 5434 TSUDA, K. and KAWAMURA, M. The constituents of the ovaries of globefish. IV. Reducing sugar isolated during purification of the poisonous component. J. pharm. Soc. Jpn. 71, 282, 1951.
- 5435 TSUDA, K. and KAWAMURA, M. The constituents of the ovaries of globefish. VI. Purification of globefish poison by chromatography. J. pharm. Soc. Jpn. 72, 187, 1952.
- 5436 TSUDA, K. and KAWAMURA, M. The constituents of the ovaries of globefish. VII. Purification of tetrodotoxin by chromatography (2). J. pharm. Soc. Jpn. 72, 771, 1952.
- 5437 TSUDA, K. and KAWAMURA, M. The constituents of the ovaries of

- globefish. VIII. Studies on tetrodotoxin. Pharmaceut. Bull. Tokyo 1, 112, 1953.
- 5438 TSUDA, K., KAWAMURA, M. and HAYATSU, R. Untersuchungen der Eierstockextrakte von Kugelfischen. XI. Ueber Tetrodotoxin. Chem. Pharm. Bull. Tokyo 8, 257, 1960.
- 5439 TSUDA, K., IKUMA, S., KAWAMURA, M., TACHIKAWA, R. and MIYADERA, T. Über Tetrodotoxin. V. Mitteilung. Synthese des C₉-Base-methyläthers. Chem. Pharm. Bull. Tokyo 10, 865, 1962.
- 5440 TSUDA, K., IKUMA, S., KAWAMURA, M., TCHIKAWA, R. and MIYADERA, T. Über Tetrodotoxin. VI. Mitteilung. 2-amino-6-methylchinazolin als Abbauprodukt von Tetrodotoxin. Chem. Pharm. Bull. Tokyo 10, 868, 1962.
- 5441 TSUDA, K., IKUMA, S., KAWMURA, M., TACHIKAWA, R., BABA, Y. and MIYADERA, T. Ueber die Struktur der C₉-Base, die sich durch Behandlung mit Alkalilauge aus Tetrodotoxin gewinnen lässt. Chem. Pharm. Bull. Tokyo 10, 247, 1962.
- 5442 TSUDA, K., IKUMA, S., KAWAURA, M., TACHIKAWA, R., BABA, Y. and MIYADERA, T. Über Tetrodotoxin. IV. Mitteilung. Die Struktur der C₉-Base, die sich durch Einwirkung der Alkalilauge auf Tetrodotoxin gewinnen lässt. Chem. Pharm. Bull. Jpn. 10, 865, 1962.
- 5443 TSUDA, K., TAMURA, C., TACHIKAWA, R. et al. Die Konstitution und Konfiguration der Tetrodonsäure. Chem. Pharm. Bull. 11, 1473, 1963.
- 5444 TSUDA, K., IKUMA, S., KAWAMURA, M. et al. Tetrodotoxin. VII. The structure of tetrodotoxin and its derivatives. Chem. Pharm. Bull. 12, 1357, 1964.
- 5445 TSUDA, K., TACHIKAWA, R., SAKAI, K. et al. On the structure of tetrodotoxin. Chem. Pharm. Bull. 12, 642, 1964.
- 5446 TSUDA, K., TAMURA, C., TACHIKAWA, R. et al. Über die Konstitution und Konfiguration des Anhydrotetrodotoxins. Chem. Pharm. Bull. 12, 634, 1964.
- 5447 TSUKADA, O. [On the mechanism of the bradycardia provoked by crystalline tetrodotoxin.] Ann. Rpt. Inst. Food Microbiol., Chiba Univ. 10, 78, 1957.
- 5448 TSUKADA, O. Effect of crystalline tetrodotoxin in circulatory reflex and experimental arrhythmia. Chiba Med. J. 3, 1369, 1960.
- 5449 TSUNENARI, S., UCHIMURA, Y., AND KANDA, M. Puffer poisoning in Japan - a case report. J. forens. Sci. 25, 240, 1980.
- 5450 TSURUMI, S. [Concerning the injection of tetrodotoxin for the treatment of leprosy.] J. Bact. 194, 849, 1911.
- 5451 TWAROG, B.M., HIDAKA, T. and YAMAGUCHI, H. Resistance to tetrodotoxin and saxitoxin in nerves of bivalve molluscs. A possible correlation with paralytic shellfish poisoning. Toxicon 10, 273, 1972.
- 5452 TWEEDIE, M.W.F. Poisonous Animals of Malaya. Malaya Publ. House: Singapore, 90p., 1941.
- 5453 TYBRING, O. Poisonous fish. Bull. U.S. Fish. Comm. 6, 148, 1887.
- 5454 TYERS, G.F.O., TODD, G.J., NEELY, J.R. and WALDHAUSEN, J.A. Mechanism of myocardial protection from ischemic arrest

- by intracoronary tetrodotoxin. J. thorac. cardiovasc. Surg. 69, 190, 1975.
- 5455 TYERS, G.F.O., TODD, G.J., NIEBAUER, I.M., MANLEY, N.J. and WALDHAUSEN, J.A. Effect of intracoronary tetrodotoxin on recovery of the isolated working rat heart from sixty minutes of ischemia. Circulation 50, II, 1974.
- 5456 UEKI, S., WATANABE, W. and NAGANO, M. [Effects of procaine, lidocaine, chlorpromazine, and tetrodotoxin on the afferent impulses from the mesenteric nerve.] Kyushu J. med. Sci. 13, 23, 1962.
- 5457 ULBRICHT, W. and WAGNER, H.-H. The influence of pH on equilibrium effects of tetrodotoxin on myelinated nerve fibres of Rana esculenta. J. Physiol. 252, 139, 1975.
- 5458 ULBRIGHT, W. and WAGNER, H.H. The reaction between tetrodotoxin and membrane sites at the node of Ranvier: its kinetics and dependence on pH. Phil. Trans. Roy. Soc. London 270, 353, 1975.
- 5459 UMALI, A.F. Edible Fishes of Manila. Commonwealth of the Philippines, Dept. Agr. Comm., Popular Bull., (6), p. 42, 1936.
- 5460 UMEDA, T. Influence of animal toxins on the ciliary movement (tissue culture experiment of ciliated epithelium). Acta Derm., Kyoto 11, 101, 1928.
- 5461 UNSWORTH, B.R. and HAFEMANN, D.R. Tetrodotoxin binding as a marker for functional differentiation of various brain regions during chick and mouse development. J. Neurochem. 25, 261, 1975.
- 5462 VAILLANT, A., PEYRIN, A., CAV-ALLO, A. and BORDER, F.P. Reflexions sur les rapports possibles entre les eosinophiles rachidiennes et l'ichthyotoxisme en Nouvelle-Calédonie. Bull. Soc. Pathol. exot. 54, 1075, 1961.
- 5463 VALENTI, M., PASQUINI, P. and ANDREUCCI, G. Saxitoxin and tetrodotoxin intoxication: report of 16 cases. Vet. Hum. Toxicol. 21, 107, 1979.
- 5464 VAN LEENT. Contributions à la géographie médicale. Les possessions Néerlandaises des Indes orientales. Arch. Méd. Nav. 8, 5, 1867.
- 5465 VAN PEL, H. Some notes on fisheries in the New Hebrides, Fiji and Tokelau. S. Pac. Comm. Q. Bull. 9, 42, 1959.
- 5466 VAN VEEN, A.G. and LATUASAN, H.E. Fish poison caused by histamine in Indonesia. Doc. Neer. Indonesica Morbis Trop. 2, 18, 1950.
- 5467 VAN ZANT, C.B. Fish and shellfish poisoning, with illustrative cases. Col. Med. 11, 453, 1914.
- 5468 VAUGHAN, V.C. Food poisoning. Sci. Month. 71, 155, 1950.
- 5469 VELLARD, J. Poissons venimeux du Rio Araguaya. Mém. Soc. Zool. France 29, 513, 1932.
- 5470 VICTORIA FISH & GAME DEPT. Poisonous and harmful fishes of Victoria. Fish. Circ. Vict. (2), 1959.
- 5471 VIGNON, G. Contribution à l'étude des intoxications alimentaires produites par les poissons. Thèse, Fac. Méd., Paris 409, 94p., 1902.

- 5472 VIGNON, G. Sur les intoxications alimentaires produites par les poissons. These, Resumee par la Gazette des Hopitaux. Paris, 1907.
- 5473 VILLEGAS, R., BARNOLA, F.V. and CAMEJO, G. Action of proteases and phospholipases on tetrodotoxin binding to axolemma preparations isolated from lobster nerve fibers. Biochim. Biophys. Acta 318, 61, 1973.
- 5474 VILLEGAS, R., BARNOLA, F.V. and VILLEGAS, J. Sodium channels and tetrodotoxin binding sites in the axon and Schwann cell membrane. Fed. Proc. 33, 1265, 1974.
- 5475 VINCENT, L. Les poissons veneneux du Japon. Arch. Méd. nav. 39, 392, 1883.
- 5476 VINCENT, L.P.E. Contribution à la géographie médicale: des Antilles et du littoral est de l'Atlantique nord. Arch. Méd. nav. 51, 97, 1889.
- 5477 VINSON, L.P.E. Éléments d'une topographie médicale de la Nouvelle-Calédonie et de l'Ile des Pins. Thèse, Fac. Méd., Paris 59, 55p., 1858.
- 5478 VIP, L.-L. Toxicity of moray eels, Gymnothorax, in Hong Kong. Copeia (1), 175, 1971.
- 5479 VON BONDE, C. Mussel and fish poisoning. S. Afr. med. J. 22, 760, 1948.
- 5480 VON BONDE, C. The toxicity of the blaasop or toby. S. Afr. med. J. 27, 692, 1953.
- 5481 VON FRAENKEL, P.H. and KRICK, E.S. Fish poisoning by barracuda in the Marianas. U.S. Nav. med. Bull. 44, 427, 1945.
- 5482 VON SOBBE. Ein bemerkenswerther Fall von Fischvergiftung. Berl. klin. Wschr. 26, 137, 1889.
- 5483 VYSKOCIL, F. Action potentials of the rat diaphragm and their sensitivity to tetrodotoxin during postnatal development and old age. Pflugers Arch. 352, 155, 1974.
- 5484 WAGNER, H.H. and ULBRICHT, W. The rates of saxitoxin action and of saxitoxin-tetrodotoxin interaction at the node of Ranvier. Pflugers Arch. 359, 297, 1975.
- 5485 WAINSCHEL, J. Spiders, scorpions and fish. Med. World News, Sept. 15, 12G, 1972.
- 5486 WAITE, E.R. The mammals, reptiles and fishes. Aust. Mus. Mem. 3, 182, 1897.
- 5487 WAKELY, J.F., FUHRMAN, G.J., FUHRMAN, F.A., FISCHER, H.G. and MOSHER, H.S. The occurrence of tetrodotoxin (tarichatoxin) in amphibia and the distribution of the toxin in the organs of newts (Taricha). Toxicon 3, 195, 1966.
- 5488 WALDSCHMIDT-LEITZ, E., KÜHN, K. and ZINNERT, F. Zur Bausteinanalyse des Clupeins. Experimentia 7, 183, 1951.
- 5489 WALKER, C. and STROHMAN, R. Myowin turnover in cultured muscle fibers relaxed by tetrodotoxin. Exp. cell Res. 116, 341, 1978.
- 5490 WALKER, F.D. Fish poisoning in the Virgin Islands. Nav. med. Bull., Wash. 17, 193, 1922.
- 5491 WALLACE, L.B. The structure and development of the axillary gland of Batrachus. J. Morph. 8, 563, 1893.
- 5492 WATANABE, A., TASAKI, I., SINGER, I. and LERMAN, L. Tetrodotoxin: comments on effects of squid axons. Science 157, 221, 1967.

- 5493 WATANABE, M. [Cases of Poisoning by the Reef Fish Lutjanus vaigiensis.] Res. Inst. Nat. Resources, Short Rpt. (6), 9p., 1946; see also U.S. Fish Wildl. Serv., Spec. Sci. Rpt. (25), p. 209, 1950.
- 5494 WATANABE, M. [The effect of tetrodotoxin on the afferent impulses from sensory nerves.] Igaku Kenkyu 28, 876, 1958.
- 5495 WATANABE, T. and HASHIMOTO, Y. Toxic components of oxidized saury oil inducing muscular dystrophy in carp. Bull. Jpn. Soc. scient. Fish. 34, 1131, 1968.
- 5496 WATANABE, W. [Effects of tetrodotoxin on phrenic nerve impulses.] Folia Pharmacol. 51, 38, 1955.
- 5497 WATERFIELD, C.J. and EVANS, M.H. A method for distinguishing tetrodotoxin from saxitoxin, by comparing their relative stabilities when heated in acid solution. Experientia 28, 670, 1972.
- 5498 WATROUS, J.J. and BAJPAL, P.K. The effect of tetrodotoxin on ^{22}Na uptake and action potential recovery in desheathed Rana pipiens nerves. Physiol. Chem. Physics 6, 489, 1974.
- 5499 WELLMÖNER, H.H.V. Aconitinerregung eines Mechanoreceptors: Messung der Membranpotentialveränderungen, Bedeutung des extracellulären Natriums und Einfluss von Tetrodotoxin. N.S. Arch. Pharmacol. exp. Pathol. 256, 350, 1967.
- 5500 WELSH, W.W. and BREELER, C.M. A contribution to the life history of the puffer, Spheroide maculatus (Schneider). Zoologica 2, 261, 1922.
- 5501 WHEELER, J.F.G. and OMMANNEY, F.F. [The problem of poisonous fishes.] Mauritius-Seychelles Fish. Survey, Fish. Publ. 1, 44, 1953.
- 5502 WHEELER, J.F.G. [The problem of poisonous fishes.] Rev. Agric. Ile Maurice 33, 132, 1954.
- 5503 WHITE, A.W. Dinoflagellate toxins as probable cause of an Atlantic herring (Clupea harengus harengus) kill, and pteropods as apparent vector. Can. Fish. Res. Bd. J. 34, 2421, 1977.
- 5504 WHITING, F.E.M. [Directive listing several fishes which are poisonous at Saipan.] Order No. 14-45, U.S. Army. Issued 21 June, 1945.
- 5505 WHITLEY, G.P. Ichthyological miscellanea. Mem. Queensland Mus. 10, 8, 1930.
- 5506 WHITLEY, G.P. The Chinaman fish. Aust. Mus. Mag. 4, 394, 1932.
- 5507 WHITLEY, G.P. A new fish, reputed to be poisonous, from Queensland. Mem. Queensland Mus. 10, 175, 1934.
- 5508 WHITLEY, G.P. Some fishes of the Sydney district. Aust. Mus. Mag. 5, 291, 1935.
- 5509 WHITLEY, G.P. Poisonous fishes. Fish. News Lett. (Cronulla) 1, 5, 1942.
- 5510 WHITLEY, G.P. Poisonous and harmful fishes. Bull. Coun. Sci. Indust. Res., Australia 159, 1, 1943.
- 5511 WHITLEY, G.P. Solvol Fish Book. Sydney, 18p., 1949.
- 5512 WHITLEY, G.P. Toadfish poisoning. Aust. Mus. Mag. 11, 60, 1953.
- 5513 WHITLEY, G.P. Are hussars edible? Aust. Mus. Mag. 11, 194, 1954.

- 5514 WHITLEY, G.P. A kennel of frog-fishes. Aust. Mus. Mag. 12, 139, 1957.
- 5515 WHITLEY, G.P. Marine Fishes of Australia. Jacaranda Press: Brisbane, 1962.
- 5516 WHITLEY, G.P. and HALSTEAD, B.W. An annotated bibliography of the poisonous and venomous fishes of Australia. Rec. Aust. Mus. 23, 211, 1955.
- 5517 WILLIAMS, C.M. Tetrodotoxin: a nonlethal paralytic agent for insects. Science 160, 444, 1968.
- 5518 WILSON, J.P.A. Fish poisoning. Br. med. J. 2, 292, 1887.
- 5519 WONG, J.L., OESTERLIN, R. and RAPOPORT, H. The structure of saxitoxin. J. Am. chem. Soc. 93, 7344, 1971.
- 5520 WOOD, J.D. and MARSH, D.R. Effects of atropine, tetrodotoxin and lidocaine on rebound excitation of guinea-pig small intestine. J. Pharm. exp. Therap. 184, 590, 1973.
- 5521 WOOD-JONES, F. Coral and Atolls. Lovell Reene & Co.: London, 392p., 1912.
- 5522 WOODWARD, R.B. The structure of tetrodotoxin. Pure appl. Chem. 9, 49, 1964.
- 5523 WOODWARD, R.B. and GOUGOUTAS, J.Z. The structure of tetrodotoxin. J. Am. chem. Soc. 86, 5030, 1964.
- 5524 WULFF, V.J. and MENDEZ, C. The effect of manganous chloride and tetrodotoxin on Limulus lateral eye reticular cells. Vision Res. 13, 2327, 1973.
- 5525 WURZIGER, J. and DICKHAUT, G. Estimation of histamine in fish and fish products in the light of the food regulations. Fleischwirtschaft 58, 963, 1978.
- 5526 YAGI, S. and SUEKANE, T. Studies on globefish poison. Part 2. Its lethal dose and toxic effect on animals including calves and goats. Bull. Fac. Agric. Yamaguti Univ. 23, 531, 1972.
- 5527 YAMAGISHI, S. and SANO, T. Effect of tetrodotoxin on the pacemaker action potential of the sinus node. Proc. Jpn. Acad. Sci. 42, 1194, 1966.
- 5528 YAMAMOTO, I. The influence of yeast on the toxicity of liver and fish oils. J. agric. chem. Soc. Jpn. 10, 264, 1934.
- 5529 YAMAMOTO, I. The toxicity of fish-liver oils and fish oils on the antitoxic effect of yeast. Bull. Inst. Phys. Chem. Res. 13, 1, 1934.
- 5530 YAMAMOTO, I. Nutritive value of ischinagi (Stereolepis ishinagi) and beef-liver. Bull. Inst. Phys. Chem. Res. 14, 731, 1935.
- 5531 YAMAMOTO, I. Tests on the nutritive value of seabass and beef livers. Rep. Inst. Phys. Chem. Res. 14, 731, 1935.
- 5532 YAMASAKI, S. [Hepatotoxin.] Osaka med. Assoc. Mag. 13, 443, 1914.
- 5533 YAMASAKI, S. and KIKKAWA, T. [The application of tetrodotoxin for leprosy and other diseases.] Osaka med. Assoc. Mag. 10, 1140, 1909.
- 5534 YAMAWAKI, G.I. [On poisoning by the fugu fish (Tetrodon).] Iji Sinbun, May 5, 1883.
- 5535 YANG, H.M. [Poisonous and venomous fishes of Taiwan.] Ann. Rept.

Sci., Taiwan Mus., Taipei 10, 36, 1967.

5536 YANO, I. [The pharmacological study of tetrodotoxin.] Fukuoka Ikwa Daigaku Zasshi 30, 1669, 1937; see also Fukuoka Acta Med. 30, 91, 1937.

5537 YANO, I. [An experimental study on the globe-fish (Fugu) intoxication.] Jpn. J. med. Sci. 8, 99, 1938.

5538 YASUKAWA, T. Report of an Investigation of Poisonous Fishes Within the Jurisdiction of the Saipan Branch of the Government-General. Tokyo Imp. Univ. Contagious Dis. Res. Inst., 27p., 1935; see also Spec. Sci. Rept. Fish., U.S. Fish Wildl. Serv. (25), 189p., 1950.

5539 YASUMOTO, T. A note on ciguatera poisoning in Okinawa and the toxin of a grouper, Epinephelus fuscoguttatus Forskål. Bull. Jpn. Soc. scient. Fish. 31, 452, 1965.

5540 YASUMOTO, T. [Ciguatera—a poisoning from ingestion of fish in the South Seas.] Kagaku to Seibutsu 10, 369, 1972.

5541 YASUMOTO, T. [Ciguatera (shellfish toxin).] Igaku no Ayumi 112, 886, 1980.

5542 YASUMOTO, T. and SCHEUER, P.J. Marine toxins of the Pacific -VIII. Ciguatoxin from moray eel livers. Toxicon 7, 273, 1969.

5543 YASUMOTO, T., BAGNIS, R. and VERNOUX, J.P. Toxicity of surgeonfishes, II. Properties of the principal water soluble toxin. Bull. Jpn. Soc. scient. Fish. 42, 359, 1976.

5544 YASUMOTO, T., INOUE, A. and BAGNIS, R. Ecological survey of a toxin dinoflagellate associated

with ciguatera. In, Toxic Dinoflagellate Blooms. (Proc. 2nd Intern. Congr.), Taylor, D.L. and Seliger, H.H. (eds.), Elsevier/North-Holland: N.Y., vol. 1, p. 221, 1979.

5545 YASUMOTO, T., BAGNIS, R., THEVENIN, S. and GARCON, M. Survey of comparative toxicity in the food chain of ciguatera. Bull. Jpn. Soc. scient. Fish. 43, 1015, 1977.

5546 YASUMOTO, T., INOUE, A., BAGNIS, R. and GARCON, M. [Ecological survey on a dinoflagellate possibly responsible for the induction of ciguatera.] Nihon Suisan-Gakki Shi 45, 395, 1979.

5547 YASUMOTO, T., NAKAJIMA, I., BAGNIS, R. and ADACHI, R. Finding of a dinoflagellate as a likely culprit of ciguatera. Bull. Jpn. Soc. scient. Fish. 43, 1021, 1977.

5548 YASUMOTO, T., NAKAJIMA, I., OSHIMA, Y. and BAGNIS, R. A new toxic dinoflagellate found in association with ciguatera. In, Toxic Dinoflagellate Blooms. (Proc. 2nd Intern. Congr.), Taylor, D.L. and Seliger, H.H. (eds.), Elsevier/North-Holland: N.Y., vol. 1, p. 65, 1979.

5549 YASUMOTO, T., HASHIMOTO, Y., BAGNIS, R., RANDALL, J.E. and BANNER, A.H. Toxicity of surgeonfishes. Bull. Jpn. Soc. scient. Fish. 37, 724, 1971.

5550 YASUMOTO, T., INOUE, A., OCHI, T. et al. Environmental studies on a toxic dinoflagellate (Gambierdiscus toxicus) responsible for ciguatera. Bull. Jpn. Soc. scient. Fish. 46, 1397, 1980.

5551 YIP, L.L. and CHIU, K.W. Toxicity of the common puffer fish in Hong Kong. Experientia 27, 668, 1971.

- 5552 YOKOO, A. [Chemical studies on the tetrodotoxin. Rept. 1.] Rikagaku Kenkyujo Iho 24, 136, 1948.
- 5553 YOKOO, A. [Chemical studies on tetrodotoxin. Rept. 2.] Hiroshima Igaku 1, 52, 1948.
- 5554 YOKOO, A. A toxin of the globefish. Bull. Tokyo Inst. Technol. 13, 8, 1948.
- 5555 YOKOO, A. [Chemical studies on tetrodotoxin. Rept. 3. Isolation of Spheroidine.] Jpn. J. chem. Soc. 71, 590, 1950.
- 5556 YOKOO, A. Studies on a toxin of the globefish. III. Isolation of spheroidine from the ovary of Spheroides rubripes. J. chem. Soc. Jpn. 71, 590, 1950.
- 5557 YOKOO, A. [Studies on toxin of a globefish. Rept. IV.] Proc. Jpn. Acad. 28, 200, 1952.
- 5558 YOKOO, A. [The toxin of the swellfish.] Kagaku 9, 138, 1954.
- 5559 YOKOO, A. and MOROSAWA, S. [Studies on the toxin of a globefish. Rept. V. Comparison with tetrodotoxin.] J. Pharm. Soc. Jpn. 75, 235, 1955.
- 5560 YOSHIDA, S. [Experimental results regarding puffer poison, hepatotoxin, discovered by Hori.] Med. News, Jpn. 864, 1463, 1912.
- 5561 YOSHIDA, S., MATSUDA, Y. and SAMEJIMA, A. Tetrodotoxin-resistant sodium and calcium components of action potentials in dorsal root ganglion cells of the adult mouse. J. Neurophysiol. 41, 1096, 1978.
- 5562 YOUNG, W. The mechanism of tetrodotoxin on the in situ acetylcholinesterase in the vagal heart system. Physiologist 12, 403, 1969.
- 5563 YUDKIN, W.H. Tetrodon poisoning. Bull. Bingham Oceanogr. Coll. 9, 1, 1944.
- 5564 YUDKIN, W.H. The occurrence of a cardioinhibitor in the ovaries of the puffer, Spheroides maculatus. J. cell. comp. Physiol. 25, 85, 1945.
- 5565 ZAMA, K., HATANO, M. and IGARASHI, H. Lipidic poison in roe of northern blenny. Ninth Jpn. Conf. Biochem. Lipids, Tokyo, Japan, 1967 (Abst.).
- 5566 ZETLER, G. Antagonism of cholecystokinin-like peptides by opioid peptides, morphine or tetrodotoxin. Europ. J. Pharmacol. 60, 67, 1979.
- 5567 ZIBER-SHUMOVA, N.O. [Poisonous fish.] Trud. Obshch. russk. Vrach., St. Petersburg 61, 123, 1894-95.
- 5568 ZIPSER, B. and BENNETT, M.V.L. Tetrodotoxin resistant electrically excitable responses of receptor cells. Brain Res. 61, 253, 1973.
- 5569 ZLOTKIN, E. Chemistry of animal venoms. Experientia 29, 1453, 1973.

CHAPTER X

VENOMOUS FISHES

Citations in this chapter relate to those fishes that are venomous, that is, those fishes which have a gland or group of highly specialized secretory cells, a venom duct (although this is not a constant finding), and a structure for delivering the venom. In some citations, the evidence for the venomousness of the fish has not been established, but such references have been included. Fishes that do not have a mechanism for the delivery of their toxin, including the crinotoxic fishes, are noted in Chapter IX.

- 5570 AFLALO, F.G. A Sketch of the Natural History of Australia. Macmillan: London, 1896.
- 5571 ALBAHARY, J.M. Sur quelques poissons toxiques à laitances vénéreuses. Bull. Suisse Pêche Piscicult. 13, 194, 1912.
- 5572 ALEMÁN, D.J. Un punto de duda respecto del aparato venenoso del Ictalurus dugesii. Naturaleza 1, 498, 1891.
- 5573 ALFRED, E.R. Sharks, rays and sawfishes in Malayan fresh waters. Malay. nat. J. 16, 235, 1962.
- 5574 ALLEN, G.R. and ESCHMEYER, W.N. Turkeyfishes at Eniwetok. Pac. Discovery 26, 3, 1973.
- 5575 AMEMIYA, I. On the structure of the poison sting of Aigo (Siganus fuscescens). Suisan Gakkai Ho 3, 196, 1921.
- 5576 ANON. Giftighe Fische am Kap der Guten Hoffnung. Petermanns Geogr. Mitt. 4, 256, 1838.
- 5577 ANON. Les poissons vénéreux. L'Indépend. Méd. 6, 19, 1900.
- 5578 ANON. Venomous fishes. J.A.M.A. 68, 1589, 1917.
- 5579 ANON. Venomous fishes. Br. med. J. (2), 54, 1922.
- 5580 ANON. Fish poisons. "Notes and comments." U.S. Nav. med. Bull. 20, 466, 1924.
- 5581 ANON. Mission scientifique au Goyaz et au Rio Araguaya. I. Poissons venimeux de Rio Araguaya. Soc. zool. France Mém. 29, 513, 1932.
- 5582 ANON. Medical and sanitary data on Trinidad. U.S. War Dept., 7p., 1941.
- 5583 ANON. Wounds inflicted by sting-rays. J.A.M.A. 117, 1833, 1941.
- 5584 ANON. Medical and sanitary data on Samoa. U.S. War Dept., 9p., 1943.
- 5585 ANON. Poisonous and dangerous fishes of the tropical Pacific. U.S. Arctic, Desert, Trop. Info. Cent., Info. Bull. (10), 1943.
- 5586 ANON. Poisonous and harmful fishes. Bull. Coun. Scient. Indust. Res., Commonwealth Australia, Melbourne. (159), 1943.
- 5587 ANON. Medical and sanitary data on Kwangchowan. U.S. War Dept., 1p., 1943.
- 5588 ANON. Medical and sanitary data on the New Hebrides. U.S. War Dept., 5p., 1943.
- 5589 ANON. Medical and sanitary data on the Phoenix Island. U.S. War Dept., 3p., 1943.
- 5590 ANON. Medical and sanitary data on the Tokelau or Union Islands. U.S. War Dept., 4p., 1943.
- 5591 ANON. Survival on land and sea. Office of Naval Intelligence, U.S. Navy, 1944.
- 5592 ANON. A demon of the warm seas. Bull. U.S. Army med. Dept. (77), 1944.
- 5593 ANON. Medical and sanitary data on the Mariana Islands. U.S. War Dept., TB Med. Dept. 20, 4, 1944.
- 5594 ANON. Medical and sanitary data on the Palau Islands. U.S. War Dept., TB Med. Dept. 41, 4, 1944.
- 5595 ANON. Medical and sanitary data on the Caroline Islands. U.S.

- War Dept., TB Med. Dept. 50, 4, 1944.
- 5596 ANON. Medical and sanitary data on Guam. U.S. War Dept., TB Med. Dept. 57, 4, 1944.
- 5597 ANON. Medical and sanitary data on the Philippine Islands. U.S. War Dept., TB Med. Dept. 68, 25, 58, 1944.
- 5598 ANON. Venomous fishes. U.S. War Dept., TB Med. Dept. 72, 10, 1944.
- 5599 ANON. Medical and sanitary data on Hainan. U.S. War Dept., TB Med. Dept. 118, 6, 1944.
- 5600 ANON. Medical and sanitary data on the Marshall Islands. U.S. War Dept., TB Med. Dept. 111, 4, 1944.
- 5601 ANON. Medical and sanitary data on Pratas Island. U.S. War Dept., TB Med. Dept. 146, 2, 1945.
- 5602 ANON. Medical and sanitary data on Italy. U.S. War Dept., TB Med. Dept. 178, 15, 1945.
- 5603 ANON. Medical and sanitary data on the Gilbert and Ellice Islands, Ocean Island and Nauru. U.S. War Dept., TB Med. Dept., 189, 8, 1945.
- 5604 ANON. Poisoning by snakes, plants and fish. AAP Tactical Center Med. Ser. 1, 1, 1945.
- 5605 ANON. Take care, they're poisonous. The Sun, Sydney, Mar. 6, 1951.
- 5606 ANON. Sting ray injuries. Med. News Lett. 23, 6, 1954.
- 5607 ANON. Heat inactivates venom. Sci. News Lett. 67, 20, 1955.
- 5608 ANON. Poisoning by the stingray. Q. Rev. Pediatrics 13, 120, 1958.
- 5609 ANON. Those twenty-four bathing tragedies in the West. Is a poisonous fish one of the causes? West. Independent, Plymouth, England, Sept. 7, 1958.
- 5610 ANON. Stone-fish poisoning. J. trop. Med. Hyg. 63, 333, 1960.
- 5611 ANON. Vergiftungen durch den Trachinus draco. In, Bisse und Stiche einiger Gifttiere. Ihre Behandlung mit Calcium-Sandoz. p. 34, undated.
- 5612 ANON. Weever-fish stings. Br. med. J. (2), 1043, 1965.
- 5613 ANON. Bites and stings. Therap. Notes 73, 59, 1966.
- 5614 ANON. Fish venom hides potent vasodilator. J.A.M.A. 206, 2231, 1968.
- 5615 ANON. A deadly fish story. Trojan Family, Nov. 1971.
- 5616 ANON. Scorpionfishes. Bull. Nat. Clearinghouse Poison Cont. Ctr., Sept.-Oct., 1974.
- 5617 ANON. Fish that can kill. World Fish., April 1973.
- 5618 ANON. Water, water everywhere. Emerg. Med. 5, 108, 1975.
- 5619 ANON. Jaws that bite, things that sting. (Interview with Dr. F.E. Russell). Emerg. Med., July, 1978; also in, Back to Basics. Cohen, I.M. (ed.), EM Books: N.Y., p. 271, 1979.
- 5620 ANON. This "lion" doesn't roar. J.A.M.A. 242, 17, 1979.
- 5621 ATZ, J.W. The flamboyant zebra fish. Animal Kingdom 63, 34, 1962.

- 5622 AUBERT, M. Blessure produite par une pastenague. Lib. Méd. Chir. Pharm. Milit., Paris, 8p., 1861.
- 5623 AUSTIN, L., CAIRNCROSS, K.D. and MC ALLUM, I.A. Some pharmacological actions of the venom of the stonefish Synanceja horrida. Arch. int. Pharmacodyn. 131, 339, 1961.
- 5624 AUSTIN, L., GILLIS, R.G. and YOUATT, G. Stonefish venom: some biochemical and chemical observations. Aust. J. exp. Biol. med. Sci. 43, 79, 1963.
- 5625 AUTENRIETH, H.F. Über das Gift der Fische. C.F. Oslander: Tübingen, 287p., 1833.
- 5626 BABEL, J.S. Reproduction, life history, and ecology of the round stingray, Urolophus halleri Cooper. Calif. Dept. Fish Game, Fish. Bull. (137), 104p., 1967.
- 5627 BAGNIS, R. À propos de 51 cas de piqûres vénimeuses par la rascasse tropicale Synanceja verrucosa dans les Iles de la Société et des Tuamotu. Méd. Trop. 28, 612, 1968.
- 5628 BAGNIS, R. Note sur les animaux marins vénimeux dans "Le Monde Vivant des Atolls." Publ. Soc. Océan. (28), 102, 1972.
- 5629 BAGNIS, R., BERGLUND, P.S., ELIAS, P.S. et al. Problems of toxicants in marine food products. I. Marine biotoxins. Bull. W.H.O. 42, 69, 1970.
- 5630 BAIRD, S.F. Venomous fish in the Mauritius. Ann. Rec. Sci. Ind. 263, 1872.
- 5631 BANFIELD, E.J. The Confessions of a Beachcomber. Fisher Unwin: London, 1908.
- 5632 BASSETT-SMITH, P.W. Snake-bites and poisonous fishes. J. Bombay nat. Hist. Soc. 115, 112, 1903.
- 5633 BASSLER, H. A sting-ray attack on a man on the upper Amazon. Science 96, 274, 1942.
- 5634 BASSOMPIERRE and SCHNEIDER. Envenimation par la piqûre de la vive; accidents d'intoxication suraiguë; traitement par le sérum antivenimeux. Arch. Méd. Pharm. Milit. 34, 301, 1899.
- 5635 BAUGHMAN, J.L. The marine fisheries of the Mayas as given in Diego de Landa's "Relacion de las Casas de Yucatan" with notes on the probable identification of fishes. Texas J. Sci. 4, 433, 1952.
- 5636 BAYLEY, H.H. Injuries caused by scorpion fish. Trans. Roy. Soc. trop. Med. Hyg. 34, 227, 1940.
- 5637 BEAN, B.A. and WEED, A.C. A review of the venomous toad-fishes. Proc. U.S. nat. Mus. 38, 511, 1910.
- 5638 BELL, C. Possession of a venom apparatus by the old-wife fish (Enoplosus armatus). Med. J. Aust. (2), 71, 1967.
- 5639 BELLOC, É. Noms scientifiques et vulgaires des principaux poissons et crustacés d'eau douce. Paris, 19p., 1899.
- 5640 BERRY, F.H. and ANDERSON, W.W. Stargazer fishes from the western North Atlantic (Family Uranoscopidae). Proc. U.S. nat. Mus. 112, 563, 1961.
- 5641 BERRY, F.H. and BALDWIN, W.J. Triggerfishes (Balistidae) of the eastern Pacific. Proc. Calif. Acad. Sci., Ser. 4, 34, 429, 1966.

- 3642 BHIMACHAR, B.S. Poison glands in the pectoral spines of two catfishes—Heteropneustes fossilis (Bloch) and Plotosus arab (Forsk.), with remarks on the nature of their venom. Proc. Indian Acad. Sci. 19, 65, 1944.
- 3643 BICKMORE, J.T. Poisonous fish. The Fisherman, Aug. 4, 1954.
- 3644 BICKMORE, J.T. All fish aren't poisonous. The Fisherman, Nov. 1, 1954.
- 3645 BIGELOW, H.B. and SCHROEDER, W.C. Fishes of the western North Atlantic. Mem. Sears Found. mar. Res. 1, 1, 1953.
- 3646 BIRKHEAD, W.S. The comparative toxicity of stings of the ictalurid catfish genera Ictalurus and Schilbeodes. Comp. Biochem. Physiol. 22, 101, 1967.
- 3647 BIRKHEAD, W.S. Toxicity of stings of Ariid and Ictalurid catfishes. Copeia (4), 790, 1972.
- 3648 BISSET, N.G. Hunting poisons of the North Pacific region. Lloydia 39, 87, 1976.
- 3649 BITSEFF, E.L., GARONI, W.J., HARDISON, C.D. and THOMPSON, M. The management of stingray injuries of the extremities. South. med. J. 63, 417, 1970.
- 3650 BLAIR, R.H. A person with interest on Dr. Muir Evans on toxic properties of the sting-ray's sting. Br. med. J. (2), 267, 1945.
- 3651 BLANCHARD, M.R. Les poissons des eaux douces de la France. Paris, 1866.
- 3652 BLANCHARD, R. Traité de Zoologie Médicale. J.B. Bailliére & Fils: Paris, 1890.
- 3653 BLEEKER, P. Révision de espèces insulindiennes du genre Uranoscopus L. Versl. Meded. Akad. Afr. Nat., Ser. 22, 13, 47, 1877.
- 3654 BONNE, W.M. and NEUHAUS, K. Vergiftiging door de steek van een visch. Geneesk. Tijdschr. Ned.-Ind. 76, 2402, 1936.
- 3655 BORLEY, J.O. The poison apparatus of the weever. Trans. Norfolk Norwich nat. Soc. 8, 369, 1907.
- 3656 BOTTARD, A. Les poissons venimeux de la mer des Mascareignes. Mém. Soc. Sci. Arts de Saint-Denis (Réunion), 1879.
- 3657 BOTTARD, A. Note sur la piqure de la vivre. C.R. Soc. Biol. 37, 23, 1885.
- 3658 BOTTARD, A. Les Poissons Venimeux Contribution à l'Hygiène Navale. Octave Dion: Paris, 198p., 1889.
- 3659 BOTTARD, A. L'appareil à venin des poissons. C.R. Acad. Sci. 108, 594, 1889; see also C.R. Soc. Biol. 41, 131, 1889.
- 3660 BOUDER, H. and CAVALLO, A. Les intoxications par les poissons vénéneux. Rev. Corps Santé Armées, Paris 4, 63, 1963.
- 3661 BOULENGER, G.A. Fishes. Cambridge Nat. Hist., 7 (21), Macmillan: London, 1904.
- 3662 BOUTIÈRE, H. Les Scorpaenidés des eaux marocines. Trav. Inst. sci. chérifien (Maroc) Sér. zool. 15, 83, 1958.
- 3663 BRAKER, W.P. Beware the lionfish—and others! The Aquarium 31, 602, 1962.

- 5664 BRAULT, J. Traité pratique des maladies des pays chauds. J.B. Bailliere & Fils: Paris, 1899.
- 5665 BRETA, F. Contribution à l'étude des poissons vénéneux. Bull. Lab. marit. Dinard 12, 5, 1939.
- 5666 BRIGGS, J.J. The lesser weever (*Trachinus vipera*). Zoologist (London) 12, 4443, 1854.
- 5667 BRIOT, A. Sur l'action du venin de la vive (*Trachinus draco*). C.R. Soc. Biol. 54, 1169, 1902.
- 5668 BRIOT, A. Immunisation des lapins contre le venin de la vive, et action préventive du sérum des animaux immunisés. C.R. Soc. Biol. 54, 1172, 1902.
- 5669 BRIOT, A. Action hémolytique de venin de vive (*Trachinus draco*). C.R. Soc. Biol. 54, 1197, 1902.
- 5670 BRIOT, A. Différence d'action venimeuse des épines dorsales et des épines operculaires de la vive. C.R. Soc. Biol. 55, 623, 1903.
- 5671 BRIOT, A. Études sur le venin de la vive (*Trachinus draco*). J. Physiol. Path. gén. 6, 271, 1903.
- 5672 BRIOT, A. Sur l'existence d'une kinase dans le venin de la vive (*Trachinus draco*). C.R. Soc. Biol. 56, 1113, 1904.
- 5673 BRIOT, A. La Rascasse a-t-elle un venin? C.R. Soc. Biol. 57, 666, 1904.
- 5674 BRIOT, A. Sur l'action soi-disant venimeuse de la rascasse. C.R. Assoc. Franç. Adv. Sci. 33, 904, 1905.
- 5675 BUDDLE, R. Some common poisonous fishes found in Singapore waters. J. Roy. Nav. med. Serv. 16, 102, 1930.
- 5676 BURGESS, J. Sting ray injuries. Med. J. Aust. (2), 465, 1926.
- 5677 BYRNE, K. Injuries and diseases in Australia attributable to animals. Med. J. Aust. (2), 539, 1924.
- 5678 CADZOW, W.H. Puncture wound of the liver by stingray spines. Med. J. Aust. (47), 936, 1960.
- 5679 CALDWELL, N. Titians of the Barrier Reef. Angus & Robertson: Sydney, 1938.
- 5680 CALMETTE, A. Les Venins. Les Animaux Venimeux et la Sérothérapie Antivenimeuse. Masson & Cie: Paris, 396p., 1907.
- 5681 CALMETTE, A. Venomous fishes. Poison as a means of defense. Scient. Amer. (Suppl.) 64, 12, 1907.
- 5682 CALMETTE, A. Venoms. Venomous Animals and Antivenomous Serum-Therapeutics. John Bale, Sons & Danielsson: London, 403p., 1908.
- 5683 CALTON, G.J. and BURNETT, J.W. White catfish (*Ictalurus catus*) toxins. Lloydia 37, 641, 1974.
- 5684 CALTON, G.J. and BURNETT, J.W. Catfish (*Ictalurus catus*) fin venom. Toxicon 13, 399, 1975.
- 5685 CAMERON, A.M. Toxicity phenomena in coral reef waters. Proc. 2nd Intern. Coral Reef Symp. 1, 513, 1974.
- 5686 CAMERON, A.M. and ENDEAN, R. The venom apparatus of the scorpion fish *Notesthes robusta*. Toxicon 4, 111, 1966.
- 5687 CAMERON, A.M. and ENDEAN, R. The axillary glands of the plotosid catfish *Cnidogobius macrocephalus*. Toxicon 9, 345, 1971.

- 5688 CAMERON, A.M. and ENDEAN, R. The venom glands of teleost fishes. Toxicon 10, 301, 1972.
- 5689 CAMERON, A.M. and ENDEAN, R. Refutation of the venomous reputations of three teleost fishes. Toxicon 10, 335, 1972.
- 5690 CAMERON, A.M. and ENDEAN, R. Epidermal secretions and the evolution of venom glands in fishes. Toxicon 11, 401, 1973.
- 5691 CAMPBELL, B. The locomotor behavior of spinal elasmobranchs with an analysis of stinging in Urobatis. Copeia (4), 277, 1951.
- 5692 CAMPBELL, C.H. The stone-fish sting and its treatment. Papua N. Guinea med. J. 3, 55, 1959.
- 5693 CAMPBELL, C.H. Heridos por "peces venenosos." Resumo Ciba 5, 1960.
- 5694 CARLISLE, D.B. On the venom of the lesser weeverfish, Trachinus vipera. J. mar. Biol. Assoc. U.K. 42, 155, 1962.
- 5695 CARLSON, R.W. Studies on the venom of the California scorpionfish, Scorpaena guttata Girard. Ph.D. Thesis, Univ. S. Calif., 1971.
- 5696 CARLSON, R.W., SCHAEFFER, R.C. and RUSSELL, F.E. Studies on the venom of the California scorpionfish Scorpaena guttata Girard-I. Proc. west. pharm. Soc. 13, 110, 1970.
- 5697 CARLSON, R.W., SCHAEFFER, R.C. and RUSSELL, F.E. Studies on the venom of the California scorpionfish Scorpaena guttata Girard-II. Proc. west. pharm. Soc. 13, 112, 1970.
- 5698 CARLSON, R.W., SCHAEFFER, R.C., JR., LA GRANDE, R.G., ROBERTS, C.M. and RUSSELL, F.E. Some pharmacological properties of the venom of the scorpionfish Scorpaena guttata-I. Toxicon 9, 379, 1971.
- 5699 CARLSON, R.W., SCHAEFFER, R.C., WHIGHAM, H., RUSSELL, F.E. and WEIL, M.H. Cardiovascular effects of scorpionfish (Scorpaena guttata) venom in the dog. Fed. Proc. 32, 65, 1973.
- 5700 CARLSON, R.W., SCHAEFFER, R.C., JR., WHIGHAM, H., WEIL, M.H. and RUSSELL, F.E. Some pharmacological properties of the venom of the scorpionfish Scorpaena guttata-II. Toxicon 11, 167, 1973.
- 5701 CARTIER, L. Le venin des poissons. Poitou méd. 4, 105, 1889.
- 5702 CASTELLANI, A. and CHALMERS, A.J. Manual of Tropical Medicine. 3rd edit., Wm. Wood: N.Y., p. 230, 1919.
- 5703 CASTEX, M.N. La raya fluvial-Notas historicogeograficas. Castelli, S. Fé (ed.), Publ. del dept. de Ciencias Colegio de la Inmaculada Concepción: Santa Fé, Argentina, 120p., 1963.
- 5704 CASTEX, M.N. Una Nueva Especie de Raya Fluvial: Potamotrygon pauciei. Notas distintivas. Bol. Acad. Nac. Ciencias, Tomo XLII, Ent. 2ª, 3ª y 4ª, Córdoba, Argentina, 1963.
- 5705 CASTEX, M.N. El género Potamotrygon en el Paraná Medio. An. Mus. Prov. Cienc. Nat. "Florentino Ameghino" Tomo II, (I), Zoología. Santa Fé, Argentina, 86p., 1963.
- 5706 CASTEX, M.N. Acción tóxica del género Potamotrygon en aguas santafesinas. Rev. del Mus.

Prov. Cienc. Nat. Santa Fé
(Argentina) 2, (1), 41, 1963.

- 5707 CASTEX, M.N. Observaciones sobre la raya de Río -Potamotrygon motoro (Muller y Henle). Com. Mus. Argent. Cienc. Nat. "Bernardino Rivadavia" e Inst. Nac. Invest. Cienc. Nat. Tomo I, (2), Hidrobiología. Buenos Aires, Argentina, 17p., 1963.
- 5708 CASTEX, M.N. Notas herísticas sobre el género Potamotrygon. Com. Mus. Argent. Cienc. Nat. "Bernardino Rivadavia" e Inst. Nac. Invest. Cienc. Nat. Publ. extensión cultural y didáctica, (1), Buenos Aires, Argentina, 10p., 1963.
- 5709 CASTEX, M.N. Etiología de la enfermedad Paratrygónica. Rev. Asoc. Méd. Arg. 78, 314, 1964.
- 5710 CASTEX, M.N. Bases para la revisión de la familia Potamotrygonidae Garman 1913. Rev. Mus. Prov. Cienc. Nat. de Santa Fé. (Argentina) Num. Cinco., 1964.
- 5711 CASTEX, M.N. Notas sobre peces venenosos argentinos. Bol. Cent. Nav. Buenos Aires 83, 256, 1965.
- 5712 CASTEX, M.N. Clínica y terapéutica de la Enfermedad Paratrygónica. Rev. Asoc. Méd. Arg. 79, 547, 1965.
- 5713 CASTEX, M.N. Notas sobre algunos ejemplares curiosos de la familia Potamotrygonidae Garman 1913. Physis 25, 245, 1965.
- 5714 CASTEX, M.N. Breve consideración sobre la presencia de rayas dulces en los continentes africano y asiático. Physis 25, 460, 1965.
- 5715 CASTEX, M.N. Observaciones en torno al género Elipesurus Schomburgk, 1843 y nueva sinonimia de Potamotrygon brachyurus (Gunther, 1880) (Chondrichthyes, Potamotrygonidae). Physis 26, 33, 1966.
- 5716 CASTEX, M.N. Estado actual de los estudios sobre la raya fluvial neotropical. Rev. Mus. Prov. C. Nat. Santa Fé. Num. Cinc., p. 9, May 1966.
- 5717 CASTEX, M.N. Observaciones en torno a las formaciones estelares que recubren el dorso de algunas especies de rayas de agua dulce (Chondrichthyes, Potamotrygonidae). Physis 26, 485, 1967.
- 5718 CASTEX, M.N. Notas sobre los dientes de las especies del género Potamotrygon Garman, 1877 (Chondrichthyes, Potamotrygonidae). Physis 26, 493, 1967.
- 5719 CASTEX, M.N. Fresh water venomous rays. In, Animal Toxins. Russell, F.E. and Saunders, P.R. (eds.), Pergamon: Oxford, p. 167, 1967; see also Toxicon 4, 292, 1967 (Abst.).
- 5720 CASTEX, M.N. and LOZA, F. Etiología de la enfermedad paratrygónica. Estudio anatómico, histológico y funcional del la raya fluvial americana (gen. Potamotrygon). Rev. Asoc. med. Arg. 78, 314, 1964.
- 5721 CASTEX, M.N. and MACIEL, I.O. Notas sobre la familia Potamotrygonidae Garman, 1913. Pub. Tec. Dir. Gen. Recursos Nat. (14), Santa Fé, Argentina, 1965.
- 5722 CASTEX, M.N. and SUILAN, F. Observaciones sobre un lote de P. magdalenae (Dumeril) 1865. Physis 25, 239, 1965.
- 5723 CASTEX, M.N., MACIEL, I. and ACHENBACH, G.M. Acerca de la raya fluvial Potamotrygon labrodori. Una nueva especie de raya fluvial Potamotrygon

- lebrodori. Neotropica La Plata 9, 117, 1963.
- 5724 CASTEX, M.N., PEDACE, E., MACIEL, I., MEYER, J., MURPHY, M. and REMONDA, G. La enfermedad paratrigonica: notas bibliográficas y estudio clínico-experimental. Prensa Méd. Arg. 51, 217, 1964.
- 5725 CAUZARD, H. Aperçu sur les danger des poissons marins. Thèse, Fac. Méd., Paris, 1963.
- 5726 CECCA, R. Sugli effetti tossici delle punture di alcuni pesci. Clin. Med. Ital., Milano 41, 82, 1902.
- 5727 CHANTRE Y HERRERA, J. Historia de las Misiones de la Compañía de Jesús en el Marañón español. Madrid, 108p., 1901.
- 5728 CHIEVITZ, J.H. Notice on Prof. W. Newton Parker's communication on the poisonous organs of *Trachinus*. Anat. Anz. 3, 787, 1888.
- 5729 CILENTO, R.W. Tropical Diseases in Australasia. Smith & Patersons Brisbane, p. 339, 1940.
- 5730 CILENTO, R.W. Some Poisonous Plants, Sea and Land Animals of Australia and New Guinea. W.R. Smith & Paterson Pty: Brisbane, 37p., 1944.
- 5731 CITTERIO, V. L'apparato vulnerante di *Amiurus catus* (L.). Atti Soc. Ital. Sci. Nat. 84, 1, 1925.
- 5732 CITTERIO, V. L'apparato vulnerante di *Arius heudeloti* (C. e V.). Atti Soc. Ital. Sci. Nat. 17, 24, 1926.
- 5733 CLARKE, T.A., FLECHSIG, A.O. and GRIGG, R.W. Ecological studies during Project Sealab II. Science 157, 1381, 1967.
- 5734 CLELAND, J.B. Injuries and diseases in man in Australia attributable to animals (except insects). Australas. med. Gaz. 32, 269, 1912.
- 5735 CLELAND, J.B. Injuries and diseases of man in Australia attributable to animals (except insects). J. trop. Med. Hyg. 16, 25, 1913.
- 5736 CLELAND, J.B. Injuries and diseases of man in Australia attributable to animals, except those due to snakes and insects. 6th Rept., Govt. Bur. Microbiol., Dept. Pub. Hlth., N.S.W., 266p., 1916.
- 5737 CLELAND, J.B. Injuries and diseases in Australia attributable to animals (except insects). Med. J. Aust. (2), 339, 1924.
- 5738 CLELAND, J.B. Injuries and diseases in Australia attributable to animals (other than insects). Med. J. Aust. (2), 157, 1932.
- 5739 CLELAND, J.B. Injuries and diseases in Australia attributable to animals. Med. J. Aust. (2), 313, 1942.
- 5740 CLELAND, J.B. Injuries from animals. Med. J. Aust. (2), 491, 1942.
- 5741 CLEM, R.R. A stingaree spine—an unusual foreign body in a dog. Australian vet. J. 29, 83, 1953.
- 5742 COATS, J.A., PATTABHIRAMAN, T.R., RUSSELL, F.E. and GONZALEZ, H. Some physiopharmacologic properties of scorpionfish venom. Proc. west. pharmacol. Soc. 23, 113, 1980.
- 5743 COBB, S. Acetylcholine, the neuromuscular junction and certain drugs and poisons. Bull. Univ. Miami Sch. Med. 14, 10, 1960.

- 5744 COHN, H. Ueber Sehstörungen nach Vergiftungen durch Wildpastete und Hecht. Jahresb. Schles. Gesells. Vaterl. Kult. (Breslau) 57, 82, 1880.
- 5745 COLBY, M. Poisonous marine animals in the Gulf of Mexico. Proc. Trans. Texas Acad. Sci. 26, 62, 1943.
- 5746 COLENO, R. Étude sur les poissons vulnérants et sur les traumatismes causés chez l'homme par les poissons. Méd. trop. 20, 180, 1960.
- 5747 COLLETTE, B.B. A review of the venomous toadfishes, subfamily Thalassophryinae. Copeia (4), 846, 1966.
- 5748 COMPTON, G. Manta rays and stingrays. Oceans 10, 4, 1977.
- 5749 COOK, H. Venomous marine animals in Australian waters. Illus. London News, March 4, 1950.
- 5750 CORRE, A. Note pour servir à l'histoire des poissons vénéneux. Arch. Méd. nav. 3, 136, 1865.
- 5751 CORRE, A. Nouvelle note relative aux poissons vénéneux. Arch. Méd. nav. (Paris) 35, 63, 1881.
- 5752 COUTIÈRE, H.M. Poissons venimeux et poissons vénéneux. Thèse, École Super. Pharm. Paris, 217p., 1899; see also Thèse, Carré et Naud (eds.), Paris, Part 3, 1899.
- 5753 COUTIÈRE, H.M. Sur la non-existence d'un appareil à venin chez la murène hélène. C.R. Soc. Biol. 54, 787, 1902.
- 5754 COUTIÈRE, H.M. Sur le prétendu appareil venimeux de la Murène hélène. Bull. Soc. Philomath. Paris 9, 229, 1907.
- 5755 CREVAUX, J. and LE JANNE, E. Recit du troisième voyage dans l'Amérique équatoriale. Arch. Méd. nav. (Paris) 37, 50, 1882.
- 5756 CROSS, T.B. An unusual stingray injury - the skindiver at risk. Med. J. Aust. (2), 947, 1976.
- 5757 CURTISS, A. A Short Zoology of Tahiti in the Society Islands. Priv. print., 193p., 1938.
- 5758 DA FONSECA, O.O.R. Sobre os peixes venenosos. Brazil med. 31, 90, 1917; see also J.A.M.A. 68, 1589, 1917 and Physiol. Abstr. 2, 395, 1917.
- 5759 DA FONSECA, O.O.R. Estudos sobre peixes venenosos. Ann. 2nd Conf. S. Amer. Hyg., Microbiol., Path. Manguinhos, Rio de Janeiro, 1924.
- 5760 DA FONSECA, O.O.R. Algumas observações sobre peixes venenosos na Bahia. Brazil-med. 33, 308, 1919.
- 5761 DAHL, F. Die Tierwelt Deutschlands und der angrenzenden Meeres-teile. Säugetiere, Vögel, Kriech-tiere, Lurche, Fische. G. Fischer: Jena, 207p., 1925.
- 5762 DANE, P.G. Sting-ray injuries. Med. J. Aust. (2), 677, 1926.
- 5763 DANIEL, J.F. The Elasmobranch Fishes. 3rd. edit., Univ. Calif. Press: Berkeley, 332 p., 1934.
- 5764 DAO, L. Lesiones producidas por las rayas Potamotrygonidae en ríos de Venezuela. Derm. Int. 4, 219, 1965.
- 5765 DARUTY, M.A. Poissons venimeux et vénéneux. Trans. Roy. Soc. Art. Sci. Mauritius 11, 17, 1883.
- 5766 DATHE, H. Einige Beobachtungen über die Giftwirkung von

- Trachinus -Stichen. Deuts.
Aquar. Terrar. Z., Stuttgart 3,
36, 1950.
- 5767 DAVID, N.F. Still more on catfish stings. J.A.M.A. 233, 864, 1975.
- 5768 DEAKINS, D.E. and SAUNDERS, P.R. Purification of the lethal fraction of the venom of the stonefish Synanceja horrida (Linnaeus). Toxicon 4, 257, 1967.
- 5769 DEAN, B. A Bibliography of Fishes. Amer. Mus. Nat. Hist.: N.Y., Vol. 1, 1916; Vol. 2, 1917; Vol. 3, 1923.
- 5770 DE CLERCQ, M. Aperçu sur les recherches scientifiques effectuées dans le domaine de la toxicologie marine. Les animaux marins toxicophores. Ann. Biol. 3, 429, 1964.
- 5771 DELFIN, F.T. Concordancia de nombres vulgares y Científicos de los peces de Chile. Imp. Gillet: Valparaíso, 82p., 1901; see also Rev. Chilena Hist. Nat. 6, 71, 1902.
- 5772 DE MARCO, R. Ricerche sulla permeabilità dei centri nervosi. IV. Sulla permeabilità dell'asse cerebro-spinale di Bufo viridis Sotto l'azione del veleno di Trachinus draco e di Scorpaena scropha. Boll. Soc. Ital. Biol. Sper. 11, 767, 1936.
- 5773 DE MARCO, R. Effetti del veleno di Trachinus e di quello di Scorpaena sulla attività neuromuscolare della rana. Arch. Fisiol. 37, 398, 1937.
- 5774 DE MARCO, R. Effetti del veleno di Trachinus sulla capacità di lavoro del gastrocnemio di rana. Riv. Biol. 25, 225, 1938.
- 5775 DE MARCO, R. Sulla presenza di Fattori di diffusion Nel veleno di alcuni Pesci. Arch. sci. biol. 27, 446, 1941.
- 5776 DEMOREAU, G. Contributions à l'étude des piqures de poissons au cours des accidents du travail. Thèse, Paris, 68p., 1908.
- 5777 DE SYLVA, D.P. Stingers, biters—and divers. Sea Frontiers 13, 355, 1967.
- 5778 DE ZAMORA, A. Historia de la provincia de San Antonio del Nuevo Reino de Granada. Caracas, 559p., 1930.
- 5779 DIETMANN, H. Animal poisons. Pharm. Presse 31, 4, 22, 1926.
- 5780 DISSARD, A. and NOE, J. Sédentarité des poissons venimeux. C.R. Soc. Biol. 46, 86, 1894.
- 5781 DOW, J.M. Abstract of letter to Dr. Günther regarding Thalassophryne and its poisonous power. Proc. zool. Soc. London 677, 1865.
- 5782 DREISBACH, R.H. Handbook of Poisoning; Diagnosis and Treatment. 3rd edit., Lange Med. Publ.: Los Altos, Calif., 483p., 1966.
- 5783 DUGÈS, A. Aparato venenoso del bagre (Ictalurus dugesi, Bean). Naturaleza 1, 405, 1891.
- 5784 DUHIG, J.V. The nature of the venom of Synanceja horrida (the stonefish). Z. Immunforsch. 62, 185, 1929.
- 5785 DUHIG, J.V. and JONES, G. The venom apparatus of the stonefish (Synanceja horrida). Mem. Queensland Mus. 9, 136, 1928.
- 5786 DUHIG, J.V. and JONES, G. Haemotoxin of the venom of Synanceja horrida. Aust. J. exp. Biol. med. Sci. 5, 173, 1928; see

- also Proc. Roy. Soc. 39, 12, 1928.
- 5787 DUMÉRIL, A. Des poissons vénéneux. Ann. Soc. Linn. Dept. Maine-et-Loire, Angers 8, 1, 1866; see also Ann. Mag. nat. Hist. Ser. 3, 20, 133, 1867.
- 5788 DUNBAR-BRUNTON, J. The poison-bearing fishes, Trachinus draco and Scorpaena scrofa: the effects of the poison on man and animals and its nature. Lancet (2), 600, 1896.
- 5789 DUNCKER, G., EHRENBAUM, E., KYLE, H.M., MOHR, E.W. and SCHNAKENBECK, W. [The Fishes of the East and North Seas.] Akademische Verlagsgesellschaft M.B.H.: Leipzig, 527p., 1920.
- 5790 DYMSZA, H., SHIMIZU, Y., RUSSELL, F.E. and GRAHAM, H.D. Poisonous marine animals. In, The Safety of Foods. 2nd edit., Graham, H.D. (ed.), Avi Publ.: Westport, Conn., p. 625, 1980.
- 5791 EMEL'YANCHIK, K.G. [On allergy from stings by fish fins] Trudy Astrakhanskogo med. Inst. Stalingrad, 1938.
- 5792 ENDEAN, R. A study of the distribution, habitat, behavior, venom apparatus, and venom of the stonefish. Aust. J. mar. freshwat. Res. 12, 177, 1961.
- 5793 ENDEAN, R. Stonefish. Aust. nat. Hist. 14, 21, 1962.
- 5794 ENDEAN, R. Venomous marine animals. Aust. Territories 5, 31, 1965.
- 5795 ENDEAN, R. Marine toxins. Sci. J. 2, 57, 1966.
- 5796 ENDEAN, R. Neurotoxins occurring in marine animals from Australian waters. In, Neurotoxins. Fundamental and Clinical Advances. Chubb, I.W. and Gef-fen, L.B. (eds.), Adelaide Univ. Union Press: Adelaide, p. 57, 1979.
- 5797 ENGELSEN, H. Om giftfisk og giftige fisk. Nord. Hyg. Tidsskrift. 3, 316, 1922.
- 5798 ENGELSEN, H. On poisonous animals. Nord. Hyg. Tidsskrift. 4, 263, 373, 1923.
- 5799 ESCHMEYER, W.N. Two new Atlantic scorpionfishes. Proc. Calif. Acad. Sci. 37, 501, 1971.
- 5800 ESCHMEYER, W.N. and ALLEN, G.R. Three new species of scorpionfishes (family Scorpaenidae) from Easter Island. Proc. Calif. Acad. Sci. 37, 515, 1971.
- 5801 ESSERTEAU. Note sur un poisson vulnérant en l'île d'Hainan. Bull. méd. Franco-Chinois 1, 39, 1920.
- 5802 EVANS, H.M. Note on the treatment of weever sting. Br. med. J. (2), 23, 1906.
- 5803 EVANS, H.M. Observations on the poisoned spines of the weever fish, Trachinus draco. Br. med. J. (1), 73, 1907; see also Trans. Norfolk Norwich nat. Soc. 8, 355, 1907.
- 5804 EVANS, H.M. Further studies on haemolysis by weever venom. Br. med. J. (1), 982, 1910.
- 5805 EVANS, H.M. The poison-organ of the sting-ray. (Trygon pastinaca). Proc. zool. Soc. London 29, 431, 1916.
- 5806 EVANS, H.M. The poison of the spiny dogfish. (A case of acute edema the result of a prick by a dogfish, and a preliminary note on the poison gland of the spiny

dogfish.) Br. med. J. (1), 287, 1920.

5807 EVANS, H.M. The poison organs and venoms of venomous fish. Br. med. J. (2), 690, 1921.

5808 EVANS, H.M. The defensive spines of fishes, living and fossil, and the glandular structure in connection therewith with observations on the nature of the fish venoms. Phil. Trans. Roy. Soc., London B, 212, 1, 1923.

5809 EVANS, H.M. The poison gland of Trygon. Supplementary note. Proc. Roy. Soc., London B, 96, 491, 1924-25.

5810 EVANS, H.M. Sting-fish and Seafarer. Farber & Farber: London, 180p., 1943.

5811 EVANS, H.M. Sharks: vicious and venomous. Lancet 247, 859, 1944.

5812 EVANS, H.M. Toxic properties of stingray's sting. Br. med. J. (2), 165, 1945.

5813 EVANS, M.H. Block of sensory nerve conduction in the cat by mussel poison and tetrodotoxin. In, Animal Toxins. Russell, F.E. and Saunders, P.R. (eds.), Pergamon Oxford, p. 97, 1967.

5814 FABER, G.L. The Fisheries of the Adriatic and the Fish Thereof. Bernard Quaritch: London, 292p., 1883.

5815 FALKNER, T. Descripción de la Patagonia. La Plata, 65p., 1911.

5816 FARONA, M.F., SWEET, T.R. and MACNEVIN, W.M. A chemical investigation of the lamprey eel venom. Arch Biochem. Biophys. 98, 245, 1962.

5817 FAUST, E.S. Die tierischen Gifte. F. Vieweg & Sohn: Braunschweig, p. 134, 1906.

5818 FAUST, E.S. Tierische Gifte: Fische, Pisces. Handbuch exp. Pharm. (Berlin) 2, 1841, 1924.

5819 FAYRER, J. Venomous animals. Edinburgh med. J. 23, 97, 1877.

5820 FAYRER, J. Venomous animals. Edinburgh med. J. 23, 105, 1878.

5821 FAYRER, J. Venomous animals. Edinburgh med. J. 23, 106, 1878.

5822 FERNÁNDEZ, A. Nueva raya para la Ciencia: Potommatrygon schroederi n. sp. Biol. Mus. Cienc. Nat. (Venezuela) 2/3, 7, 1958.

5823 FERNANDO, C.H. A preliminary study of the defensive spines of some Malayan freshwater fishes. Bull. Fish. Res. Sta. Ceylon 17, 169, 1965.

5824 FISH, C.J. and COBB, M.C. Noxious Marine Animals of the Central and Western Pacific Ocean. Fish. Wildl. Serv., U.S. Dept. Int., (26), 1954.

5825 FISHER, A.A. Atlas of Aquatic Dermatology. Grune & Stratton: N.Y., 112p., 1978.

5826 FISHER, A.A. and ORRIS, W.L. Aquatic contact dermatitis. Cutis 12, 687, 1973.

5827 FISHER, O. Fische mit giftabsondernden Stacheln (Ordnung Acanthopti, Stachelflosser). Münch. med. Wschr. 98, 1001, 1956.

5828 FLECKER, H. Injuries from stone fish. Med. J. Aust. (2), 371, 1956.

5829 FLEURY, R. L'appareil vénimeux des Asalaciens trygoniformes

(Anatomie, Histologie, Physiologie). Mém. Soc. zool. France 30, 1, 1950.

5830 FONSSAGRIVES, J.B. Hygiène navale. (2nd edit.), Paris, 1879.

5831 FONSSAGRIVES, J.B. and DE MERICOURT, L. Recherches sur les poissons toxicophores exotiques des pays chauds. Ann. Hyg. pub. Méd. Lég. (Paris) Ser. 2, 16, 326, 1862.

5832 FOWLER, H.W. Os peixes de aqua doce do Brazil. Arq. Zool. São Paulo 6, 204, 1948.

5833 FREDERICQ, L. Die Sekretion von Schutzzund Nutzstoffen. In, Handbuch der vergleichenden Physiologie. Winterstein, H. (ed.), Gustav Fischer: Jena, Vol. 2, p. 166, 1924.

5834 FRENCH, G.E. A case of lion fish sting. J. trop. Med. Hyg. 70, 42, 1967.

5835 FRÓES, H.P. Sur un poisson toxiphore bresilien: le "niquim" Thalassophryna maculosa. Rev. sud-amer. Méd. Chir. 3, 871, 1932.

5836 FRÓES, H.P. Peixes tóxicos do Brasil. Novas considerações sobre os "niquins" da Bahia (Thalassophrynidae). Bahia med. 4, 69, 1933.

5837 FRÓES, H.P. Studies on venomous fishes of tropical countries. J. trop. Med. (Hyg.) 36, 134, 1933.

5838 GAGE, S.H. and GAGE-DAY, M. The anticoagulating action of the secretion of the buccal glands of the lampreys (Petro-myzon, Lampetra and Entosphenus). Science 66, 282, 1927.

5839 GAIL, P.R. and RAGEAU, J. Premières observations sur un poisson marin venimeux de la Nouvelle-

Calédonie: la synacée (Synanceia verrucos Bloch). Bull. Soc. Path. exot. 49, 846, 1956.

5840 GALASSO, F. Anatomia macro e microscopica della mucosa palatina di Muraena helena L., con speciale riguardo alla questione dell'apparecchio velenifero. Catanzaro, 1901.

5841 GALLAGHER, M.J. Clinical notes on a case of poisoning by stone-fish venom. Mem. Queensland Mus. 9, 148, 1928.

5842 GARMAN, S. The Plagiostomia (sharks, skates, and rays). Mem. Mus. comp. Zool. Harvard 36, 1, 1913.

5843 GATEWOOD, J.D. Naval Hygiene. Blakiston's: Philadelphia, 536p., 1909.

5844 GAVRILOV, N. [The Problem of Poisonous Fishes of Odessa Bay.] Trudy vrachei stantsii skoroi pomoshchi: Odessa, 1908.

5845 GESSNER, O. Tierische Gifte. Heffter's Handbuch Exptl. Pharmacol. 6, (suppl.) 1, 1937.

5846 GESSNER, O. Tierische Gifte. In, Handbuch der experimentellen Pharmakologie. Julius Springer: Berlin, Vol. 6, p. 61, 81, 1938.

5847 GIBBONS, A.J. They mesh the man-eaters. Australian Outdoors, p. 10, Oct. 1957.

5848 GIBSON, F.A. Further specimen of greater weever, Trachinus draco L. Irish nat. J. 12, 110, 1956.

5849 GILL, T. Life histories of toadfishes (Batrachoidids), compared with those of weevers (Trachinus) and stargazers (Uranoscopids). Smithson. Misc. Collect. 48, 388, 1907.

- 5850 GILL, W.W. Natural history anecdotes: poisonous fish. Sydney Morning Herald, Jan. 8 and Sydney Mail, Jan. 10, 1874.
- 5851 GILL, W.W. Zoologische Miscellan aus der Südsee. Mittell. Geogr. Ges. Thüringen (Jena), 7, 18, 1888.
- 5852 GILLIS, R.G. Some observations on stonefish. N. Queensland Nat. 29, 1, 1961.
- 5853 GIMLETTE, J.D. Malay Poisons and Charm Cures. J. & A. Churchill: London, 127p., 1915.
- 5854 GIMLETTE, J.D. and THOMSON, H.W. A Dictionary of Malayan Medicine. Oxford Univ Press: London, 1939.
- 5855 GINSBURG, I. Western Atlantic scorpionfishes. Smithson. Misc. Collect. 121, 1, 1953.
- 5856 GIUNIO, P. [Poisonous fish.] Higiene i Tehnika, Zagreb 1, 282, 1948.
- 5857 GLASSER, H. Poisons. Mayflower Press: Plymouth, England, 292p., 1937.
- 5858 GOE, D.R. The gross and microscopic anatomy of the dorsal fin spines of the Pacific dogfish Squalus suckleyi (Girard) 1854. Thesis, Walla Walla College, 1950.
- 5859 GOMEZ, I.C. Algunos peces venenosos de la República Mexicana. Bol. Dir. Estud. Biol. 3, 66, 1926.
- 5860 GONÇALVES, A.D. Peixes venenosos. Tese, Bahia, 1905.
- 5861 GONÇALVES, A.D. Peixes venenosos da Bahia. Gaz. med. Bahia 38, 441, 1907.
- 5862 GONZÁLEZ, D. Clínico-epidemiological aspects of animal toxins in Spain. Toxicon 17 (Suppl. 1), 55, 1979 (Abst.).
- 5863 GONZÁLEZ, L.D. Lesiones por mordeduras y picaduras de animales marinos, ponzoñosos y venenosos. Jano Medicina 347, 38, 1978.
- 5864 GONZÁLEZ, L.D. Accidentes por mordeduras y picaduras de animales marinos ponzoñosos y venenosos. Inmersión y Ciencia 12, 7, 1978.
- 5865 GOODGER, W.P. and BURNS, T.A. The cardiotoxic effects of alligator gar (Lepisosteus spatula) roe on the isolated turtle heart. Toxicon 18, 489, 1980.
- 5866 GRADWHOL, R.B., BENITEZ SOTO, L. and FELSENFELD, O. Clinical Tropical Medicine. C.V. Mosby: St. Louis, 1657p., 1951.
- 5867 GRAHAM, S.A. and O'ROKE, E.C. On Your Own. A Manual for Field and Service Men. Univ. Minn. Press: Minneapolis, p. 56, 1943.
- 5868 GRAINSER, C.R. Occupational injuries due to sting-rays. Trans. Roy. Soc. trop. Med. Hyg. 74, 408, 1980.
- 5869 GRALL, C. and CLARAC, A. Intoxications et empoisonnements bérubéri. In, Traite de Pathologie Exotique. Paris, Vol. V, 1911.
- 5870 GRALL, C. and CLARAC, A. Intoxications et empoisonnements. In, Traite de Pathologie Exotique Clinique. J.-B. Ballière: Paris, Vol. V, 1938.
- 5871 GRASSÉ, P.P. Traité de Zoologie. Masson: Paris, Tome 13, 1958.

- 5872 GREEN, K.C.B. The stonefish. Sea Frontiers 12, 369, 1966.
- 5873 GREENWOOD, P.H. The stinging weever fishes. Practitioner 215, 225, 1975.
- 5874 GREIG, D.M. Thanatophoric fish. Edinburgh med. J. 37, 638, 1930.
- 5875 GRESSIN, L. Contribution à l'étude de l'appareil à venin chez les poissons du genre "Vive" (Trachinus). Thèse, Fac. Méd., Paris 289, 1, 1884.
- 5876 GUDGER, E.W. Habits and life history of the toadfish (Opsanus tau). Bull. U.S. Bur. Fish. 28, 1073, 1908.
- 5877 GUDGER, E.W. Cannibalism among the sharks and rays. Sci. Month. 34, 403, 1932.
- 5878 GUDGER, E.W. A malformed tail and spine of the sting-ray Dasyatis hastata. Copeia (4), 186, 1933.
- 5879 GUDGER, E.W. Bathytoshia, the giant stingaree of Australia. Aust. Mus. Mag., p. 205, April, 1937.
- 5880 GUDGER, E.W. Is the sting ray's sting poisonous? A historical resume showing the development of our knowledge that it is poisonous. Bull. Hist. Med. 14, 467, 1943.
- 5881 GUDGER, E.W. Does the sting ray strike and poison fishes? Sci. Month. 63, 110, 1946.
- 5882 GUDGER, E.W. Is the sting ray's sting poisonous to vertebrates other than men and fishes? Amer. Nat. 81, 297, 1947.
- 5883 GUEVARA, J. Historia de la conquista del Paraguay, Río de la Plata y Tucumán. Buenos Aires, 1882.
- 5884 GUIBE, J. Les poissons toxicophores. In, Traité de Zoologie. Grassé, P.P. (ed.), Masson & Cie: Paris, Vol. 13, p. 1934, 1958.
- 5885 GUILLAUME, A. Les poissons venimeux. Rev. Sci. 69, 428, 1931.
- 5886 GUILLON, A. De quelque poissons vulnérants; la pirai, la pastenague et l'anguille tremblante. Clinique, Paris 6, 161, 1911.
- 5887 GUILLUY, F.H.J. De la Petite Vive et de sa Piqure. Morel: Lille, 1904.
- 5888 GUNTHER, A. On a poison organ in a genus of batrachoid fishes. Proc. zool. Soc., London 1, 155, 1864; see also Ann. Mag. nat. Hist. 14, 458, 1864.
- 5889 GUNTHER, A.C. An Introduction to the Study of Fishes. Adam & Charles Black: Edinburgh, p. 189, 1880.
- 5890 HAAVALDSEN, R. and FONNUM, F. Weever venom. Nature 199, 236, 1963.
- 5891 HABERMEHL, G. Gift-Tiere und ihre Waffen. Eine Einführung für Biologen, Chemiker und Mediziner. Eine Leitfaden für Touristen. Springer-Verlag: Berlin, 126p., 1976.
- 5892 HABERNOLL, A. Natur und Bedeutung der tierbedingten Unfälle in Deutschland. Sitzber. Ges. Naturf. Freunde, Berlin 437, 1936.
- 5893 HAEMPEL, O. Leitfaden der Biologie der Fische. Enke: Stuttgart, 180p., 1912.

- 5894 HALSTEAD, B.W. Injurious effects from the sting of the scorpionfish, Scorpaena guttata with report of a case. Calif. Med. 74, 395, 1951.
- 5895 HALSTEAD, B.W. Animal phyla known to contain poisonous marine animals. In, Venoms. Buckley, E.E. and Porges, N. (eds.), A.A.A.S.: Washington, p. 9, 1956.
- 5896 HALSTEAD, B.W. Weever stings and their medical management. U.S. Armed Forces med. J. 8, 1441, 1957.
- 5897 HALSTEAD, B.W. Dangerous Marine Animals. Cornell Maritime Press: Cambridge, Md., 1957; (revised 1978).
- 5898 HALSTEAD, B.W. Beware!! The zebrafish. All Pets 27, 1958.
- 5899 HALSTEAD, B.W. Venomous fishes. In, The Encyclopedia of the Biological Sciences. Gray, P. (ed.), Reinhold Publ. Corp.: N.Y., p. 1049, 1961.
- 5900 HALSTEAD, B.W. Sting rays. J.A.M.A. 173, 541, 1961.
- 5901 HALSTEAD, B.W. Venomous marine animals of Brazil. Mem. Inst. Butantan Simp. Internac. 33, 1, 1966 (publ. 1968).
- 5902 HALSTEAD, B.W. A study of the venomous fishes and sea snakes of Southeast Asia. U.S. Nat. Tech. Info. Serv. Announcements 72, 100, 1972.
- 5903 HALSTEAD, B.W. Venomous fishes. In, Venomous Animals and Their Venoms. Bucherl, W. and Buckley, E. (eds.), Vol. 2, 587, 1971.
- 5904 HALSTEAD, B.W. The venom apparatus of California rockfishes (Family Scorpaenidae). Bull. Calif. Dept. Fish & Game, Sacramento 136, 48, 1972.
- 5905 HALSTEAD, B.W. Poisonous and Venomous Marine Animals of the World. Rev. edit., Darwin Press: Princeton, N.J., 238p., 1978.
- 5906 HALSTEAD, B.W. and BUNKER, N.C. The venom apparatus of the ratfish Hydrolagus colliei. Copeia (3), 128, 1952.
- 5907 HALSTEAD, B.W. and BUNKER, N.C. Stingray attacks and their treatment. Amer. J. trop. Med. Hyg. 2, 115, 1953.
- 5908 HALSTEAD, B.W. and DALGELEISH, A.E. The venom apparatus of the European stargazer Uranoscopus scaber L. In, Animal Toxins. Russell, F.E. and Saunders, P.R. (eds.), Pergamon: N.Y., p. 177, 1967.
- 5909 HALSTEAD, B.W. and MITCHELL, L.R. A review of the venomous fishes of the Pacific area. In, Venomous and Poisonous Animals and Noxious Plants of the Pacific Region. Keegan, H.L. and Macfarlane, W.V. (eds.), Pergamon: N.Y., p. 173, 1963.
- 5910 HALSTEAD, B.W. and MODGLIN, F.R. A preliminary report on the venom apparatus of the bat ray, Holorhinus californicus. Copeia (3), 163, 1950.
- 5911 HALSTEAD, B.W. and MODGLIN, F.R. Weeverfish stings and the venom apparatus of weevers (Trachinus). Z. Tropenmed. und Parasitol. 9, 129, 1958.
- 5912 HALSTEAD, B.W. and RUSSELL, F.E. Toxic marine organisms. In, Handbook of Biological Data. Spector, W.S. (ed.), F.A.S.E.B.: Washington, p. 424, 1956.

- 5913 HALSTEAD, B.W. and SMITH, R.L. Presence of an axillary venom gland in the oriental catfish Plocheilichthys lineatus. Copeia (2), 133, 1934.
- 5914 HALSTEAD, B.W., CARSCALLEN, L.J. and RUSSELL, F.E. Animal toxins. Part III. Marine organisms. In, Biology Data Book. Altman, P.L. and Dittmer, D.S. (eds.), F.A.S.E.B.: Washington, p. 336, 1964.
- 5915 HALSTEAD, B.W., CHITWOOD, M.J. and MODGLIN, F.R. The anatomy of the venom apparatus of the zebrafish, Pterois volitans (Linnaeus). Anat. Rec. 122, 317, 1955.
- 5916 HALSTEAD, B.W., CHITWOOD, M.J. and MODGLIN, F.R. The venom apparatus of the California scorpionfish, Scorpaena guttata Girard. Trans. Amer. micr. Soc. 74, 145, 1955.
- 5917 HALSTEAD, B.W., CHITWOOD, M.J. and MODGLIN, F.R. Stonefish stings, and the venom apparatus of Synanceja horrida (Linnaeus). Trans. Amer. micr. Soc. 75, 381, 1956.
- 5918 HALSTEAD, B.W., ENGEN, P.C. and DANIELSON, D.D. Morphology of the venom organs of the rabbitfishes (family Teuthidae). In, Toxins of Animal and Plant Origin. de Vries, A. and Kochva, E. (eds.), Gordon & Breach Sci.: N.Y., p. 121, 1971; see also Toxicon 8, 134, 1970 (Abst.).
- 5919 HALSTEAD, B.W., KUNINOBU, L.S. and HEBARD, H.G. Catfish stings and the venom apparatus of the Mexican catfish, Galeichthys felis (Linnaeus). Trans. Amer. micr. Soc. 72, 297, 1953.
- 5920 HALSTEAD, B.W., MODGLIN, F.R. and KUHN, G.D. On the morphology of the "hairs" of the rare deep sea fish, Mirapinnasau. Ann. Mag. nat. Hist. 10, 767, 1957.
- 5921 HALSTEAD, B.W., OCAMPO, R.R. and MODGLIN, F.R. A study on the comparative anatomy of the venom apparatus of certain North American stingrays. J. Morph. 97, 1, 1955.
- 5922 HALSTEAD, B.W., DANIELSON, D.D., BALDWIN, W.J. and ENGEN, P.C. Morphology of the venom apparatus of the leatherback fish Scomberoides sanctipetri (Cuvier). Toxicon 10, 249, 1972.
- 5923 HARRIS, G. Note on the great weever (Trachinus draco). Zoologist (London) 12, 4260, 1854.
- 5924 HARTMANN, J. The treatment of stingray injuries. J.A.M.A. 197, 193, 1966.
- 5925 HASHIMOTO, Y. [Marine Toxins]. Univ. Tokyo Press: Tokyo, 1977.
- 5926 HASHIMOTO, Y. Marine Toxins and Other Bioactive Marine Metabolites. Jpn. Sci. Soc.: Tokyo, 369p., 1979.
- 5927 HAWES, S.C. Wounding by elephant fish. New Zealand med. J. 60, 16, 1961.
- 5928 HELM, T.W., III. The ray that packs a wallop. Field & Stream p. 49, Sept. 1953.
- 5929 HERALD, E.S. Living Fishes of the World. Doubleday: Garden City, N.Y., 1967.
- 5930 HERRE, A.W. A case of poisoning by a stinging catfish in the Philippines. Copeia (3), 222, 1949.

- 5931 HERRE, A.W. A review of the scorpaenoid fishes of the Philippines and adjacent seas. Philippine J. Sci. 80, 381, 1951.
- 5932 HEWITT, G.H. The treatment of bullrope lesions. Med. J. Aust. (2), 491, 1943.
- 5933 HILZHEIMER, M. and HAEMPEL, O. Handbuch der Biologie der Wirbeltiere. F. Enke: Stuttgart, 1913.
- 5934 HINTON, S. Unusual defense movements in Scorpaena plumieri mystes. Copeia (4), 842, 1962.
- 5935 HIYAMA, Y. [Report on the research on poisonous fishes of the South Seas.] Nissan Fish Exp. Sta., Odawara, Japan, 137p, 1943; see also Spec. Sci. Rept., U.S. Fish. Wildl. Serv. (25), 188p., 1950.
- 5936 HOLLOWAY, J.E., BUNKER, N.C. and HALSTEAD, B.W. The venom of Urobatis halleri (Cooper), the round stingray. Calif. Fish Game 39, 77, 1953.
- 5937 HUNTER, G.W., FRYE, W.W. and SWARTZWELDER, J.C. A Manual of Tropical Medicine. 3rd edit., Saunders: Philadelphia, p. 627, 1960.
- 5938 HURST, W.C. Nohus: devil in paradise. Oceana 3, 49, 1972.
- 5939 INGLETON, G.C. True Patriots All. Angus & Robertson: Sydney, 1952.
- 5940 JOHNSTON, D.G. and BURGER, W.D. Injury and disease of scuba and skin divers. Postgrad. Med. 49, 134, 1971.
- 5941 JORG, M.E. Ulcera cutánea gangrenosa por herida con espina caudal de pez raya. Nov. Reun. Soc. Arg. Pat. Reg., Mendoza 3, 1999, 1935.
- 5942 JOUGE, L. Note sur le laffe (Synanceja verrucosa) et glande a venin. Trans. Roy. Soc. Sci. Arts, Maurice 5, 19, 1871; see also Ann. Natur. 6, 491, 1872.
- 5943 JUBILENJNI ZBORNIK MEDICINSKE FAKULTETE, 1945-1955. Papirno Kromatografska Analiza Pepsina; Drago Lebez, O Nekaterih Biokemicnih Lastnostih Pajcjih Strupov, Yug.; 179p., 1953.
- 5944 JÜPTNER, H. Verletzungen durch Steinfische (Synanceja trachynis). Z. Tropenmed. u. Parasit., Stuttgart 11, 475, 1960.
- 5945 KABESHIMA. Serological study of toxin of the fish Plotosus anguillaris Lacépède. J. Jpn. Protozool. Soc. 6, 45, 1918.
- 5946 KAISER, E. and MICHL, H. Die Biochemie der tierischen Gifte. Franz Deuticke: Wien, p. 79, 1958.
- 5947 KAZDA, F. Fingergangrän nach Stich durch Trachinus draco (Petermännchen). Arch. Klin. Chir. 166, 546, 1931.
- 5948 KENNY, E.B. Weever sting. Br. med. J. (2384), 608, 1906.
- 5949 KESTEVEN, L. The venom of the fish Notesthes robusta. Proc. Linn. Soc. New S. Wales 39, 91, 1914.
- 5950 KLAUDER, J.V., RIGHTER, L.L. and HARKINS, M.J. A distinctive and severe form of erysipeloid among fish handlers. Arch. Derm. Syph. 14, 662, 1926.
- 5951 KLAUSEWITZ, W. Feuerfische der Gattungen Dendrochirus und Pterois. Aquar. Terrar.-Z. (Datz.), 10, 319, 1957.

- 5952 KLOTZ, L.R., KLOTZ, S.D. and SWEENEY, M.J. Possible allergic reactions to fractionated catfish toxin. J. Allergy clin. Immun. 61, 173, 1978.
- 5953 KNOX (KNOCH), G. [On Poisonous Fishes and the Means to Prevent Poisoning by Them.] J. Treus: St. Petersburg, 1888.
- 5954 KOBERT, R. Ueber Gifffische und Fischgifte. Med. Woche 19, 199; 20, 209; 21, 221, 1902.
- 5955 KOBERT, R. Über Gifffische und Fischgifte. Ferdinand Enke: Stuttgart, 36p., 1905.
- 5956 KOBERT, R. Kompodium der praktischen Toxikologie, zum Gebrauche für Ärzte, Studierende und Medizinalbeamte. Ferdinand Enke: Stuttgart, p. 190, 1912.
- 5957 KÖNNEMANN, C. Giffige Fische. Organ für Gesamte Heilk., Berlin 5, 213, 1856.
- 5958 KOPSTEIN, P.F. Die giftigen Tiere von Niederländisch-Ost-Indien. Natuurk. Tijdschr. Nederlandsch-Indie 86, 123, 1926.
- 5959 KORNALIK, F. [Animal Toxins.] Public Health: Prague, 288p., 1967.
- 5960 KOZLOWSKI, J. Sting ray jabs water. Salt Water Aquar. 3, 39, 1967.
- 5961 KUMADA, T. [Illustrations of Edible Aquatic Fauna of the South Seas.] Odawara, Japan, 1941.
- 5962 LABILLARDIÈRE, J.J. Voyage in Search of La Perouse. (English edit.), vol. 2, p. 253, 1800.
- 5963 LACOSTE, M.L. Sérothérapie anti-venimeuse des poissons. Bull. Trim. Enseign. Pêches Marit. 16, 435, 1911.
- 5964 LADAVAC, J. and MARETIĆ, Z. Histology of the oral cavity and the teeth of moray eels. Does Muraena helena L. have a venom apparatus? Acta Biol. Jugosl. 9, 61, 1977.
- 5965 LAGLER, K.F., BARDACH, J.E. and MILLER, R.R. Ichthyology. Wiley Inc.: N.Y., 546p., 1962.
- 5966 LAIGRET, J. and BAGNIS, R. Traumatismes, envenimations et intoxication alimentaires causés par les animaux aquatiques. Encycl. Médico-Chirurgicale 2, 1, 1969.
- 5967 LANE, C.E. Toxins of marine origin. Ann. Rev. Pharmacol. 8, 409, 1968.
- 5968 LAVOCAT, A. Appareil operculaire des poissons. Mém. Acad. Sci. Toulouse 5, 62, 1888.
- 5969 LE GAC, P. Accidents consécutifs à la piqure d'un poisson venimeux, le Plotosus lineatus. Bull. Soc. Path. exot. 29, 923, 1936.
- 5970 LEITÃO, A.M. Temas de medicina de urgencia. Acidentes causados por animais peçonhentos. Arq. Brasil Med. 46, 361, 441, 1956.
- 5971 LEONHARDT, E.E. Giffige Fische. Deutsch. Fischerei Corresp., Dresden 8, 122, 1904.
- 5972 LEVY, G. Blessures par poissons venimeux du Bassin d'Arcachon. Thèse, Univ. Bordeaux, (89), 62p., 1934.
- 5973 LEWINSOHN, C. [Injuries caused by marine animals.] Dapim Refuim 21, 704, 1962.
- 5974 LIEBERT, F. and DEERNS, W.M. Onderzoek naar de oorzaak van

- een vischeterite in der Polder
Workumer-Nieuwland, Nabij
Workum. Verh. Rapp. Rijkinst.
Vissch Onderz. 1, 81, 1920.
- 5975 LIGGINS, J.B. An unusual bathing
fatality. N.Z. med. J. 38, 27,
1939.
- 5976 LINAWEAVER, P.G. Toxic marine
life. Milit. Med. 132, 437, 1967.
- 5977 LOSEY, G.S. Predation protection
in the poison-fang blenny, Meia-
canthus atrodorsalis, and its
mimics, Ecsenius bicolor and
Runula laudanus (Blenniidae).
Pac. Sci. 26, 129, 1972.
- 5978 LOZANO, P. Historia de la con-
quista del Paraguay, Río de la
Plata y Tucumán. Buenos Aires,
Vol. I, p. 331, 1873-75.
- 5979 LOZANO REY, L. Peces ganoideos
y fisóstomos. Mem. Real Acad.
Cienc., Madrid 11, 839, 1947.
- 5980 LUEDEMANN, D. Fische. In, Sam-
mlung Göschen Bd. 356; Das
Tierreich 7/2. W. de Gruyter:
Berlin, 130p., 1955.
- 5981 LUMIÈRE, A. and MEYER, P. La
rascasse a-t-elle un venin? C.R.
Soc. Biol. 127, 328, 1938.
- 5982 LUTHER, W. and FIEDLER, K. Die
Unterwasserfauna der Mittel-
meerküsten. P. Parey: Ham-
burg, 253p., 1961.
- 5983 MAASS, T.A. Gift-tiere. In, Tabu-
lae Biologicae. Junk, W. (ed.),
W. Junk: The Hague, vol. 13,
p. 193, 1937.
- 5984 MAGALHAES, A.C. Monografia
Brasileira de Peixes Fluviais.
São Paulo, 1931.
- 5985 MAGLIERI, C. Sull'azione tossica,
immunizzante e battericida del
siero de sangue di anguilla. Ann.
Igiene Univ. Napoli 7, 191, 1897.
- 5986 MALARDÉ, L. Une evaluation de
l'importance des intoxications par
les poissons vénéneux à Tahiti et
de leurs diverses conséquences.
Papeete, Inst. Recher. Méd.
Poly. Fr. 23p., 1967.
- 5987 MANSON-BAHR, P.H. Animal poi-
sons. In, Manson's Tropical Dis-
eases. A Manual of the Diseases
of Warm Climates. 13th edit.,
Williams & Wilkins: Baltimore, p.
842, 1958.
- 5988 MANSUETI, R. Madtoms pack a
punch. Nat. Mag. 44, 314, 328,
1951.
- 5989 MARETIĆ, Z. Erfahrungen mit Sti-
chen von Giftfischen. Acta
Tropica 14, 157, 1957.
- 5990 MARETIĆ, Z. O otrovnim ribama.
Priroda 48, 83, 1961.
- 5991 MARETIĆ, Z. [Venomous animals.]
Lijecnicki Vjesnik 84, 1233,
1962.
- 5992 MARETIĆ, Z. Ribe otrovne. Med.
Encik. 3, 361, 1963.
- 5993 MARETIĆ, Z. [On venomous animals
of the Adriatic Sea.] Morsko
ribarstvo 18, 168, 1966.
- 5994 MARETIĆ, Z. Otrovnje životinje i
njihovi toksini. Pro. Med., Ljubl-
jana 3, 93, 1967.
- 5995 MARETIĆ, Z. [Venomous animals
and their toxins.] Pro. Med.,
Ljubljana 3, 93, 1968.
- 5996 MARETIĆ, Z. Opasne i otrovne
životinje Jadrana. Pomorska
biblioteka, Nav. Lib. 22, 157,
1969.
- 5997 MARETIĆ, Z. [Dangers from marine
animals.] MORE 6, 12, 1969.

- 5998 MARETIĆ, Z. [Treatment and prevention of stings of venomous fishes of Adriatic Sea.] Sportno-med. objave. 7, 502, 1970.
- 5999 MARETIĆ, Z. Some epidemiological, clinical and therapeutic aspects of envenomation by weeverfish sting. In, Toxins of Animal and Plant Origin. de Vries, A. and Kochva, E. (eds.), Gordon & Breach Sci.: N.Y., p. 1055, 1973; see also Toxicon 8, 141, 1970 (Abst.).
- 6000 MARETIĆ, Z. Trajno ostecenje iza uboda morskog pauka (Trachinus draco). Med. Jad. 4, 57, 1972.
- 6001 MARETIĆ, Z. [The sting of weeverfish (genus Trachinidae).] Sluzba Za Zarazne Bolesti I Epidemiologiju, p. 129
- 6002 MARETIĆ, Z. [Venomous Animals and Poisonous Animals of the Adriatic Sea.] J.A.Z.U.: Zagreb, Yugoslavia, 1975.
- 6003 MARINKELLE, C.J. Accidents by venomous animals in Columbia. Indust. Med. Surg. 35, 988, 1966.
- 6004 MARKERT, F. Die Flossenstacheln von Acanthias. Zool. Jahrb. 9, 665, 1896.
- 6005 MARSHALL, T.C. Fishes of the Great Barrier Reef and Coastal Waters of Queensland. Halstead Press: Sydney, 566p., 1964.
- 6006 MATIĆ-PIANTANIDA, D., VIDA KOVIĆ-BIVAL, V., BADMAN, V. and MARETIĆ, Z. Antisera against weever and scorpionfish venoms—a preliminary report. Toxicon 17 (Suppl. 1), 119, 1979 (Abst.).
- 6007 MATSUBARA, K. [Studies on the scorpaenoid fishes of Japan.] Trans. Sigenkagaku Kenkyusyo (Res. Inst. nat. Resources 1-2, 486, 1943.
- 6008 MC ALLISTER, D.E. Poisonous and venomous fishes of Canada. Nat. Mus. Can. nat. Hist. Pap. (42), 11p., 1968.
- 6009 MC CULLOUGH, A.R. Stone fishes and the art of camouflage. Austral. Mus. Mag. 2, 159, 1925.
- 6010 MC ELLIGOTT, M.G. Stinging fishes of the home waters. Br. med. J. (2386), 739, 1906.
- 6011 MC NALLY, W.D. Toxicology. In, Industrial Medicine. Chicago, 1022p., 1937.
- 6012 MEBS, D. Chemistry of animal venoms, poisons and toxins. Experientia 29, 1328, 1973.
- 6013 MEBS, D. Sting-ray injuries. Dtsch. Med. Wochenschr. 105, 1289, 1980.
- 6014 MEINARD, D. Piqûres de poisson venimeux. Bull. Méd. Algerie 16, 357, 1905.
- 6015 METZELAAR, J. Over Tropisch Atlantisch Visschen. A.H. Kruyt: Amsterdam, 314p., 1919.
- 6016 MILES, C. Los peces del rio Magdalena. Bogotá, 1947.
- 6017 MINTON, S.A. Paraspecific protection by elapid and sea snake antivenins. Toxicon 5, 47, 1967.
- 6018 MITCHELL, C.A. Trachinus venom. Knowl. Scient. News 29, 459, 1906.
- 6019 MIYAKE, S. Die isoelektrischen Punkte der Protamine. Hoppe Seyler's 172, 225, 1927.
- 6020 MIZUTA, M., ITO, T., MURAKAMI, T. and MIZOBE, M. [Mass poisoning from the liver of Sawara and Iwashikujira.] Nihon Iji Shimpō (1710), 27, 1957.

- 6021 MOISEEV, P.A. and PARAKETSOV, I.A. [Some data on the ecology of the sea scorpion (family Scorpaenidae) of the northern part of the Pacific Ocean.] Vopr. Ikhtiol. 1, 39, 1961.
- 6022 MONOD, T. L'industrie des pêches au Cameroun. Soc. d'Ed. Geogr., Marit. & Colon.: Paris, 504p., 1929.
- 6023 MONOD, T. Notes sur l'épine latéro-caudale et la queue de l'Acanthurus monroviae. Bull. Inst. Franc. Afr. Noire, Ser. A, 21, 710, 1959.
- 6024 MORDECAI, E. Wound inflicted by a stingray. New Orleans med. News Hosp. Gaz. 7, 679, 1860.
- 6025 MORICE, J. Nouvelle théorie à propos de l'origine de la vénénosité de certains poissons antillais. Rev. Trav. Inst. Pêches marit. 28, 231, 1964.
- 6026 MORICE, J. Catalogue descriptif des poissons vénéneux du banc de Saint-Barthélemy (Antilles Françaises). Soc. d'Aide tech. Corp. 29, 130, 1965.
- 6027 MOSER, A. and STURCHLER, D. Overview of the epidemiology of stonefish poisonings, their treatment and preventive measures. Schweiz Med. Wochenschr. 109, 552, 1979.
- 6028 MULLANNEY, P.J. Treatment of sting ray wounds. Clin. Tox. 3, 613, 1970; see also Mod. Med. 38, 36, 1970.
- 6029 MULLINS, J.F., WILSON, C.J. and BEST, W.C. Cryotherapy in the treatment of stingray wounds. South. med. J. 50, 533, 1957.
- 6030 MUMFORD, J.G. A Narrative of Medicine in America. Lippincott: Philadelphia, 508p., 1903.
- 6031 MYLREA, C.S.G. A note on the treatment of scorpion sting and the sting of venomous fishes in Arabia. Trans. Roy. Soc. trop. Med. Hyg. 17, 210, 1923.
- 6032 NICHOLS, J.T. and BARTSCH, P. Fishes and Shells of the Pacific World. Macmillan Co.: N.Y., 201p., 1945.
- 6033 NICOLAS, C. Remarques sur quelques poissons dits vénéneux. Bull. Soc. Path. exot., Paris 2, 214, 1909.
- 6034 NIKOLSKI, G.W. Spezielle Fischkunde. VEB Deutscher Verlag der Wissenschaften: Berlin, 632p., 1957.
- 6035 NOBRE, A.F. Animais venenosos de Portugal. Inst. Zool. Univ. Porto 1, 1, 1928.
- 6036 NORMAN, J.R. A History of Fishes. Ernest Benn: London, 1931, (2nd edit., 1936); F.A. Stokes: N.Y., 463p., 1949.
- 6037 NUCK. Stichverletzungen in der Fischindustrie bei der Verarbeitung von Rotbarsch. Arbeiterschutz 3, 12, 1936.
- 6038 OCAMPO, R.R., HALSTEAD, B.W. and MODGLIN, F.R. The microscopic anatomy of the caudal appendage of the spotted eagle-ray, Aetobatus narinari (Euphrasen), with special reference to the venom apparatus. Anat. Rec. 115, 87, 1953.
- 6039 OGILBY, J.D. Edible Fishes and Crustaceans of New South Wales. Govt. Printer: Sydney, 1893.
- 6040 OGILBY, J.D. Studies in the ichthyology of Queensland. Proc. Roy. Soc. Queensland 18, 7, 1904.

- 6041 OKADA, Y. and MATSUBARA, K. Keys to the Fishes and Fish-like Animals of Japan. Sanseido Co: Tokyo, 584p., 1938.
- 6042 OPPENHEIMBER, C. Toxines and Antitoxines. Chas. Griffin & Co.: London, 238p., 1906.
- 6043 ORB, C.H. Warning: enter at your own risk. Emergency 9, 46, 1977.
- 6044 ORLOV, G.A. and BYCHIKHIN, N.P. Occupational Injuries and Diseases of Hands of Fishermen and Workers in the Fish Industry. Meditsina Publ.: Moscow, 87p., 1964.
- 6045 PACY, H. Stingray and catfish injuries in New South Wales. Med. J. Aust. (1), 119, 1962.
- 6046 PACY, H. Australian catfish injuries with report of a typical case. Med. J. Aust. (2), 63, 1966.
- 6047 PAGET, J. Lectures on Surgical Pathology. Longman, Brown, Green & Longman: London, footnote p. 368, 1870.
- 6048 PALMER, W.H. Sting-ray poison. Br. med. J. (2), 376, 1945.
- 6049 PARADICE, W.E.J. Injuries and lesions caused by the bites of animals and insects. Med. J. Aust. (2), 650, 1924.
- 6050 PARADICE, W.E.J. Fish and other marine animals of Australia of special interest. Hmh. Inspect. Assoc. Austr. Q. Rev. 4, 43, 1926.
- 6051 PARKER, W.N. On the poison organs of Trachinus. Proc. zool. Soc. London 3, 359, 1883; see also Anat. Anz. 3, 458, 1883.
- 6052 PARNES, J. and ZLOTKIN, E. Action of the toxic skin secretion of the flatfish Pardachirus marmoratus on the guinea-pig ileum. Toxicon 14, 85, 1976.
- 6053 PARR, A.E. Teleostean shore and shallow-water fishes from the Bahamas and Turk Island. Bull. Bingham oceanogr. Coll. 3, 148p., 1930.
- 6054 PATKIN, M. and FREEMAN, D. Bullroast stings. Med. J. Aust. (2), 14, 1969.
- 6055 PATTEN, B.M. More on catfish stings. J.A.M.A. 232, 248, 1975.
- 6056 PAWLOWSKY, E.N. [Microscopic structure of the poison glands of Scorpaena porcus and Trachinus draco.] Trav. Soc. Imp. Nat., St. Petersburg 37, 316, 1906.
- 6057 PAWLOWSKY, E.N. [On the anatomy of the epidermis and its glands in venomous fish.] Trav. Soc. Imp. Natur. St. Petersburg 38, 265, 1907.
- 6058 PAWLOWSKY, E.N. [Contribution to the structure of the epidermis and its glands in venomous fish.] Trav. Soc. Imp. Nat., St. Petersburg 38, 265, 1907.
- 6059 PAWLOWSKY, E.N. [On the problem of cutaneous poison glands of some fishes.] Trav. Soc. Imp. Nat., St. Petersburg 40, 109, 1909; see also Anat. Anz. 34, 314, 1909.
- 6060 PAWLOWSKY, E.N. [On the problem of structure of poison gland of some fishes of the family Scorpaenidae.] Trudy Imperatorskogo St. Petersburg obshchestva estestvoispytatelei 16, 7-8, 1910.
- 6061 PAWLOWSKY, E. [Contribution to the question of the structure of

- the poison glands of certain fish of the *Scorpaenidae* family.] Trav. Soc. Imp. Nat., St. Petersburg 41, 317, 1911; see also Zool. Jahrb. 31, 529, 1911.
- 6062 PAWLOWSKY, E.N. Sur la structure des glandes à venin de certains poisson et en particulier de alles de *Plotosus*. C.R. Soc. Biol. 74, 1033, 1913.
- 6063 PAWLOWSKY, E.N. Über den Bau der Giftdrüsen bei *Plotosus* und anderen Fischen. Zool. Jahrb. 38, 427, 1914.
- 6064 PAWLOWSKY, E.N. Gifttiere und ihre Giftigkeit. Gustav Fischer: Jena, p. 108, 1927.
- 6065 PAWLOWSKY, E.N. [Poisons and poison-producing organs in the animal kingdom.] Russ. J. trop. Med. 7, 4, 1929.
- 6066 PAWLOWSKY, E.N. Die Giftigkeit im Tierreich und die giftproduzierenden Organe. Seuchenbekämpfung (Wien), 6, 40, 1929.
- 6067 PAWLOWSKY, E.N. [Poisonous Animals of the USSR.] Moscow, 70p., 1931.
- 6068 PELLEGRIN, J. Les poissons vénéreux. Thèse 510, Fac. Méd. Paris, 113p., 1899.
- 6069 PETTIT, A. and GEAY, F. Sur des pièces anatomiques rapportées de la Guyane. Bull. Mus. Hist. Nat., Paris 7, 275, 1901.
- 6070 PHILLIPS, C. and BRADY, W.H. Sea Pests: Poisonous or Harmful Sea Life of Florida and the West Indies. Univ. Miami Press: Miami, 78p., 1953.
- 6071 PHISALIX, C. Venins et animaux venimeux dans la série animale. Rev. Scient., Paris 8, 97, 195, 329, 1857.
- 6072 PHISALIX, C. Expériences sur le venin des vives (*Trachinus vipera* et *T. draco*). Bull. Mus. Hist. Nat., Paris 5, 256, 1899.
- 6073 PHISALIX, M. Animaux Venimeux et Venins. 2 vols., Masson & Cie: Paris, 1922.
- 6074 PHISALIX, M. Prophylaxie et traitement des piqûres venimeuses de poissons. Notes Stat. Océan. Salammbô 23, 3, 1931.
- 6075 PHISALIX, M. Le venin de quelques poissons marins. Notes Stat Océan. Salammbô 22, 3, 1931.
- 6076 PHISALIX, M. L'action physiologique des venins. Rev. Path. comp. hyg. gén. 38, 774, 1938.
- 6077 PHISALIX, M. and HOUEMER, E. Contribution à la faune venimeuse du Tonkin. Bull. Mus. Nat. Hist. Natur., Paris 6, 171, 1934.
- 6078 PHLEPS, D.R. Stone-fish poisoning. Med. J. Aust. 47, 293, 1960.
- 6079 PHOON, W.O. and ALFRED, E.R. A study of stonefish (*Synanceja*) stings in Singapore with a review of the venomous fishes of Malaysia. Singapore med. J. 6, 158, 1965.
- 6080 FIGULEVSKI, C.B. [Poisonous animals.] Med. Nurse 10, 41, 1966.
- 6081 FIGULEVSKI, S.V. [Fishes Dangerous to Man.] Meditisme: Leningrad, 115p., 1964.
- 6082 FIGULEVSKI, S.V. [Poisonous and Venomous Reptiles and Fishes.] Meditisme: Leningrad, 375p., 1966.
- 6083 POPE, E.C. Some sea animals that sting and bite. Aust. Mus. Mag. 9, 164, 1947.

- 6084 PORTA, A. Ricerche anatomiche sull'apparecchio velenifero di alcuni pesci. Anat. Anz. 26, 232, 1905.
- 6085 POTVIN, A.-R. Aiguillon venimeux de certains poissons: Ictalurus nebulosus, Ictalurus catus. Laval méd. 28, 492, 1959.
- 6086 POTVIN, A.-R. Aiguillon venimeux de certains poissons, Ictalurus nebulosus, Ictalurus punctatus. Recherches sur l'envenimation des plaies. Laval méd. 32, 52, 1961.
- 6087 PRIMOR, N. and ZLOTKIN, E. On the ichthyotoxic and hemolytic action of the skin secretion of the flatfish, Pardachirus marmoratus (Soleidae). Toxicon 13, 227, 1975.
- 6088 PRIMOR, N., SABNAY, I., LAVIE, V. and ZLOTKIN, E. Toxicity to fish effect on gill ATPase and gill ultrastructural changes induced by Pardachirus marmoratus secretion and its derived toxin, pardaxin. J. exp. Zool. 211, 38, 1980.
- 6089 PROSVIROV, E. [Poisonous and Dangerous Fish.] Kalinigrad Publ.: Kaliningrad, 80p., 1963.
- 6090 PRYOR, J.C. Marine animal life dangerous to man. In, Naval Hygiene. Blackiston: Philadelphia, p. 309, 1918.
- 6091 RALPH, C.C. Poison of the stonefish. Vict. Nat., Melbourne 60, 77, 1943.
- 6092 RANDALL, J.E. A revision of the surgeon fish genus Ctenochaetus, family Acanthuridae, with descriptions of five new species. Zoologica 40, 149, 1955.
- 6093 RANDALL, J.E. Report of a caudal-spine wound from the surgeonfish Acanthurus lineatus in the Society Islands. Wasmann J. Biol. 17, 245, 1959.
- 6094 RATHJEN, W.F. and HALSTEAD, B.W. Report on two fatalities due to stingrays. Toxicon 6, 301, 1969.
- 6095 RAVINA, A. and RAVINA, J.H. Dangers des animaux aquatiques vénéneux ou porteurs de germes pathogènes. Pr. méd. 67, 1591, 1959.
- 6096 RAY, C. and COATES, C.W. A case of poisoning by the lion fish, Pterois volitans. Copeia (3), 235, 1958.
- 6097 REED, C.T. Marine Life in Texas Waters. Anson Jones Press: Houston, p. 15, 1941; see also Texas Acad. Sci. Publ. nat. Hist. p. 1, Oct. 1941.
- 6098 REED, H.D. The structure of the poison glands of Schilbeodes gyrimus. Proc. A.A.A.S. (49th meet.), p. 232, 1900; see also Science 12, 304, 1900.
- 6099 REED, H.D. Notes on the poison organs in fishes. Science 24, 293, 1906.
- 6100 REED, H.D. The poison gland of Noturus and Schilbeodes. Amer. Nat. 41, 553, 1907.
- 6101 REED, H.D. The morphology of the dermal glands in nematognathus fishes. Z. Morph. Anthr. 24, 227, 1924.
- 6102 REED, H.D. The morphology and growth of the spines of siluroid fishes. J. Morph. 38, 431, 1924.
- 6103 REED, H.D. and LLOYD, T.J. The nature of the spines in catfishes. Trans. Amer. Fish. Soc. 45, 202, 1916.

- 6104 REICHARD, C. [Animal poisons.] Pharm. Zentral. 54, 1099, 1913.
- 6105 REINSCH, H.H. Petermännchen-giftfische der Nordsee. Neptun (7), 197, 1965.
- 6106 RINGUELET, R. and ARAMBURU, R. Peces de agua dulce de la República Argentina. Agro: La Plata, 1961.
- 6107 RITTER, P. Beiträge zur Kenntniss der Stacheln von Trygon und Acanthias. Thesis, Rostock: Berlin, 56p., 1900.
- 6108 ROBERTSON, D.H.H. The stonefish—Synanceja verrucosa. A note on its appearance, the morphology of its poison apparatus and the clinical effects of its sting. E. Afr. med. J. 38, 369, 1961.
- 6109 ROCHE, E.T. Venomous marine fishes of California. Mar. Resources Leaflet (4), 1973.
- 6110 ROCHE, E.T. and HALSTEAD, B.W. The venom apparatus of California rockfishes (family Scorpaenidae). Fish. Bull. Calif. Dept. Fish Game (156), 1972.
- 6111 ROCHE, E.T. and ST. AMANT, J.A. Potential danger from the Indian catfish Heteropneustes fossilis (Bloch). Calif. Fish Game 59, 144, 1973.
- 6112 RODRIGUES, R.J. Pharmacology of South American freshwater stingray venom (Potamotrygon motoro). Trans. N.Y. Acad. Sci. 34, 677, 1972.
- 6113 ROEDEL, P.M. Common Marine Fishes of California. Fish Bull. Calif. Dept. Fish Game (68), 150p., 1948.
- 6114 ROEDEL, P.M. Common Ocean Fishes of the California Coast. Fish. Bull. Calif. Dept. Fish Game (91), 1953.
- 6115 ROEDEL, P.M. and RIPLEY, W.E. California Sharks and Rays. Fish. Bull. Calif. Dept. Fish Game (75), 88p., 1950.
- 6116 ROMANO, S. Animali velenosi della fauna italiana. Natura (Milano) 31, 137, 1940.
- 6117 RONKA, E.K. and ROE, W.F. Cardiac wound caused by the spine of the stingray (suborder Masticura). Milit. Surg. 97, 135, 1945.
- 6118 ROUGHLEY, T.C. Where nature runs riot. On Australia's Great Barrier Reef marine animals grow to unusual size, develop strange weapons of attack and defense, and acquire brilliant colors. Nat. Geogr. Mag. 77, 823, 1940.
- 6119 ROUGHLEY, T.C. Wonders of the Great Barrier Reef. Charles Scribner's Sons: N.Y., 282p., 1947.
- 6120 ROUGHLEY, T.C. Fish and Fisheries of Australia. Halstead Press: Sydney, 1951.
- 6121 RUSSELL, F.E. The stingray. Engineer. & Sci. 17, 15, 1953.
- 6122 RUSSELL, F.E. Stingray injuries: a review and discussion of their treatment. Amer. J. med. Sci. 226, 611, 1953.
- 6123 RUSSELL, F.E. Therapy for stingray injury. Modern Med. 1, 81, 1954.
- 6124 RUSSELL, F.E. Multiple caudal spines in the round stingray, Urobatis halleri. Calif. Fish Game 41, 213, 1955.

- 6125 RUSSELL, F.E. Check valve for administering fluids and gases. Med. Arts Sci. 12, 41, 1958.
- 6126 RUSSELL, F.E. Stingray injuries. Publ. Hlth. Rept. 74, 855, 1959.
- 6127 RUSSELL, F.E. Injuries by venomous animals. Med. Arts Sci. 15, 57, 1961.
- 6128 RUSSELL, F.E. Injuries by venomous animals in the United States. J.A.M.A. 177, 903, 1961.
- 6129 RUSSELL, F.E. Venomous animals. (Editorial) J.A.M.A. 177, 912, 1961.
- 6130 RUSSELL, F.E. Stechrochenverletzungen und Ihre Ursachen. Arch. Fischereiwiss 13, 73, 1962.
- 6131 RUSSELL, F.E. Venomous animals and their toxins. London Times Sci. Rev., Autumn, p. 10, 1963.
- 6132 RUSSELL, F.E. Injuries by venomous animals. Ann. int. Med. 61, 803, 1964 (Abst.).
- 6133 RUSSELL, F.E. Venomous animals and their toxins. Ann. Rept. Smithsonian Inst., p. 477, 1964.
- 6134 RUSSELL, F.E. Marine toxins and venomous and poisonous marine animals. In, Advances in Marine Biology. Russell, F.S. (ed.), Academic: London, Vol. 3, p. 330, 1965.
- 6135 RUSSELL, F.E. Venomous and poisonous marine animals and their toxins. First Intern. Amer. Naval Res. Conf., San Juan, July 26, 1965.
- 6136 RUSSELL, F.E. Weever-fish stings. Br. med. J. (2), 1043, 1965.
- 6137 RUSSELL, F.E. Injuries by venomous animals. Amer. J. Nursing 66, 1322, 1966.
- 6138 RUSSELL, F.E. Stingray injury. J.A.M.A. 195, 708, 1966.
- 6139 RUSSELL, F.E. Venomous and poisonous marine animals. Film H-A-PMB-514, (with text), U.S. Navy Med. School, Bethesda, Md., 1966.
- 6140 RUSSELL, F.E. Toxic marine animals. Naval Res. Rev. 19, 20, 1966.
- 6141 RUSSELL, F.E. Comparative pharmacology of some animal toxins. Fed. Proc. 26, 1206, 1967.
- 6142 RUSSELL, F.E. Injuries by venomous animals. Nat. Clearings. Poison Contr. Cent., U.S. Dept. Hlth. Ed. Wlfr., P.H.S., January-February, 1967.
- 6143 RUSSELL, F.E. Pharmacology of animal venoms. Clin. Pharm. Ther. 8, 849, 1967.
- 6144 RUSSELL, F.E. Poisons and venoms. In, Fish Physiology. Hoar, W.S. and Randall, D.J. (eds.), Academic: N.Y., Vol. 3, p. 401, 1969.
- 6145 RUSSELL, F.E. Pharmacology of toxins of marine origin. In, International Encyclopedia of Pharmacology & Therapeutics. Raskova, H. (ed.), Pergamon: Oxford, Sect. 71, Vol. 2, p. 3, 1971.
- 6146 RUSSELL, F.E. Poisonous Marine Animals. TFH Publications: Neptune City, N.J., 1971.
- 6147 RUSSELL, F.E. Venom poisoning. Rational Drug Ther. 5, 1, 1971.
- 6148 RUSSELL, F.E. The stingray. Natural history, venom apparatus, chemistry and toxicology, and clinical problem. Mote Mar. Lab., Sarasota, Fla., Aug. 1972.

- 6149 RUSSELL, F.E. Venomous animal injuries. In, Current Problems in Pediatrics. Gluck, L. (ed.), Year Book Medical Publ.: Chicago, Vol. 3, p. 1, 1973.
- 6150 RUSSELL, F.E. Poisonous and venomous marine animals and their toxins. Ann. N.Y. Acad. Sci. 245, 57, 1975.
- 6151 RUSSELL, F.E. Stingray injuries. (Letter) Med. J. Aust. 1, 971, 1977.
- 6152 RUSSELL, F.E. Venomous bites and stings. In, Merck Manual. 13th edit., Berkow, R. (ed.), Merck, Sharp & Dohme: Rathway, N.J., p. 1982, 1977.
- 6153 RUSSELL, F.E. Hazardous marine life. Part 1: venomous marine animals. Hyperb. underseas Med. 1, 1, 1978.
- 6154 RUSSELL, F.E. Venom poisoning: snakes, arthropods and marine animals. Emergency Medicine Symposium III, Univ. Calif., San Diego, 1978-81.
- 6155 RUSSELL, F.E. and BOHR, V.C. Intraventricular injection of venoms. Toxicol. appl. Pharmacol. 4, 165, 1962; see also Fed. Proc. 20, 319, 1961 (Abst.).
- 6156 RUSSELL, F.E. and CARLSON, R.W. Marine organisms. In, Biology Data Book. Altman, P.L. and Dittmer, D.S. (eds.), F.A.S.E.B.: Washington, p. 726, 1973.
- 6157 RUSSELL, F.E. and EMERY, J.A. Venom of the weevers Trachinus draco and Trachinus vipera. Ann. N.Y. Acad. Sci. 90, 805, 1960.
- 6158 RUSSELL, F.E. and VAN HARREVELD, A. Cardiovascular effects of the venom of the round stingray, Urobatis halleri. Arch. intern. Physiol. 62, 322, 1954; see also In, Venoms. Buckley, E.E. and Porges, N. (eds.), A.A.A.S.: Washington, p. 33, 1956.
- 6159 RUSSELL, F.E. and LEWIS, R.D. Evaluation of the current status of therapy for stingray injuries. In, Venoms. Buckley, E.E. and Porges, N. (eds.), A.A.A.S.: Washington, p. 13, 1956.
- 6160 RUSSELL, F.E. and LONG, T.E. The effect of venoms on neuromuscular transmission. In, Myasthenia Gravis. Viets, J.R. (ed.), C.C. Thomas: Springfield, Ill., p. 101, 1960.
- 6161 RUSSELL, F.E., BARRIT, W.C. and FAIRCHILD, M.D. Electrocardiographic patterns evoked by venom of the stingray. Proc. Soc. exp. Biol. Med. 96, 634, 1957.
- 6162 RUSSELL, F.E., CARLSON, R.W. and SCHAEFFER, R.C. Studies on the scorpionfishes. ONR Prog. Rept. ACR-178, August 1971 (Abst.).
- 6163 RUSSELL, F.E., FAIRCHILD, M.D. and MICHAELSON, J. Some properties of the venom of the stingray. Med. Arts Sci. 12, 78, 1958.
- 6164 RUSSELL, F.E., O'BRIEN, B.A. and INABA, D.I. Venoms and neuromuscular transmission. Tenth Pac. Sci. Congr., p. 455, 1961 (Abst.).
- 6165 RUSSELL, F.E., CARLSON, R.W., SCHAEFFER, R.C. and BIGGERS, R.D. Properties of the venom of the sculpin Scorpaena guttata. 2nd Intern. Symp. Animal Toxins, Tel Aviv, p. 75, 1970; see also Toxicon 8, 149, 1970 (Abst.).

- 6166 RUSSELL, F.E., PANOS, T.C., KANG, L.W., WARNER, A.M. and COLKET, T.C. Studies on the mechanism of death from stingray venom. A report of two fatal cases. Amer. J. med. Sci. 235, 566, 1958.
- 6167 RUSSELL, F.E., SMITH, D.S., CAYER, M. and GONZALEZ, H. Behavior, ecology and toxicity of venomous marine fishes. ONR Prog. Rept. ACR-228, p. 91, 1978 (Abst.).
- 6168 RUSTAD, A.D. Funn av fjesing (*Trachinus draco* L.) i Trondheimsfjorden. Det. norske vidensk. Selsk. Aarsberetn., p. 17, 1954.
- 6169 SACCHI, M. Sulla struttura degli organi del veleno della *Scorpaena*. Boll. Mus. Zool. Genova 36, 1, 1895.
- 6170 SAL'NIKOV, M.N. [The clinical picture and treatment of sea scorpion bites.] Vrach. Dyelo 8, 865, 1956.
- 6171 SÁNCHEZ LABRADOR, J. El Paraguay Natural, manuscrito inédito. Roma. Archivo de la Compañía de Jesús. Peces, cap. XIV, art 1. El Paraguay Católico, La Plata 1, 14, 1910.
- 6172 SANTELLI, A. Quelques considérations médicales sur le poste de Dakar. Thèse, Fac. Méd. Montpellier 78, 37, 1877.
- 6173 SAUNDERS, P.R. Venom of the stonefish *Synanceja horrida* (Linnaeus). Fed. Proc. 17, 408, 1958; see also Arch. intern. Pharmacodyn. 123, 195, 1959.
- 6174 SAUNDERS, P.R. Venoms of scorpionfishes. Proc. west. pharmacol. Soc. 2, 47, 1959.
- 6175 SAUNDERS, P.R. Venom of the stonefish *Synanceja verrucosa*. Science 129, 272, 1959.
- 6176 SAUNDERS, P.R. Pharmacological and chemical studies of the venom of the stonefish (Genus *Synanceja*) and other scorpionfishes. Ann. N.Y. Acad. Sci. 90, 784, 1960.
- 6177 SAUNDERS, P.R. and LIFTON, S.E. Sting by a venomous lionfish. U.S. Armed Forces med. J. 11, 224, 1960.
- 6178 SAUNDERS, P.R. and TAYLOR, P.B. Venom of the lionfish *Pterois volitans*. Amer. J. Physiol. 197, 437, 1959.
- 6179 SAUNDERS, P.R. and TOKES, P.R. Purification and properties of the lethal fraction of the venom of the stonefish *Synanceja horrida* (Linnaeus). Biochem. Biophys. Acta 52, 527, 1961.
- 6180 SAUNDERS, P.R., ROTHMAN, S., MEDRANO, V.A. and CHIN, H.P. Cardiovascular actions of venom of the stonefish *Synanceja horrida*. Amer. J. Physiol. 203, 429, 1962.
- 6181 SAVILLE-KENT, W. The Great Barrier Reef of Australia. W.H. Allen & Co., Ltd.: London, 387p., 1900.
- 6182 SAVTSCHENKO, P. [Poisoning by fish.] Med. Pribavi., Spb., p. 55, Sept. 1882.
- 6183 SAVTSCHENKO, P. [An Atlas of Poisonous Fishes: Symptoms Produced by Them and Therapeutic Agents.] V.S. Balashev: St. Petersburg, 55p., 1886.
- 6184 SAWAYA, P. A secreção das glândulas cutâneas de *Siphonops annulatus*. Univ. São Paulo Bol

Pac. filos., cien. letras zool. 4,
207, 1940.

6185 SAWAYA, P. Toxic marine invertebrates - venomous and noxious fishes of fresh water. Mem. Inst. Butantan Simp. Internac. 33, 31, 1966 (pub. 1968); see also Simp. Internac. Venenos Animals, Sao Paulo, p. 3, 1966 (Abst.).

6186 SCHAEFFER, R.C., JR. The chemistry and physiopharmacology of Scorpaena guttata venom. Thesis, Univ. South. Calif., 1970.

6187 SCHAEFFER, R.C., CARLSON, R.W. and RUSSELL, F.E. Studies on the venom of the California scorpionfish Scorpaena guttata Girard II. Proc. west. pharmacol. Soc. 13, 112, 1970.

6188 SCHAEFFER, R.C., JR., CARLSON, R.W. and RUSSELL, F.E. Some chemical properties of the venom of the scorpionfish Scorpaena guttata. Toxicon 9, 69, 1971.

6189 SCHEUER, P.J. Chemistry of Marine Natural Products. Academic N.Y., 210p., 1973.

6190 SCHMIDT, F.T. Om fjärsingens Stik og Giftræskaber. Nord. med. Arkiv. 6, 1, 1874.

6191 SCHMIDT, N. Zur Frage über die Natur des Fischgiftes und dessen Wirkung auf den menschlichen und thierischen Organismus. Verh. Congr. Med., 10th Berlin 2, 43, 1890.

6192 SCHNACKENBECK, W. Fischgifte und Fischvergiftungen. Münch. Med. Wschr. 90, 149, 1943.

6193 SCHNEE. Vorläufige Mitteilungen über eine beobachtete Vergiftung durch den Feuerfisch

(Pterois). Arch. Schiffs-u. Tropenhyg. 12, 166, 1908.

6194 SCHNEE. Drei Fälle von Verletzungen durch den giftigen Fisch (Synanceja nufu). Arch. Schiffs-u. Tropenhyg. 15, 312, 1911.

6195 SCHOMBURGK, R. Travels in British Guiana During the Years 1840-1844. Vol. II, Leipzig, 1849. Roth, W.E. (transl.), Georgetown, 1923.

6196 SCHREIBER, J. Ueber Fischvergiftung. Berl. klin. Wschr. 21, 161, 183, 1884.

6197 SCHULMANN, E. and RAVIER, J.L. Paralysis ascendante mortelle due vraisemblablement à une piqûre de vive (Trachinus draco). Progr. méd., Paris 44, 2190, 1929.

6198 SCHULTZ, L.P. The stingaree, much feared demons of the seas. U.S. Nav. med. Bull. 42, 750, 1944.

6199 SCHULTZ, L.P. The Ways of Fishes. D. Van Nostrand N.Y., 264p., 1948.

6200 SCHWANKOVSKY, F.J. Stingray wounds, results and suggested first aid. Long Beach Chapter Amer. Red. Cross (brochure), 1954.

6201 SCHWENG, E. Giftige Fische. Nachrichtbl. Aquar. Terrar. 164, 1935.

6202 SCOGGIN, C.H. Catfish stings. J.A.M.A. 231, 176, 1975.

6203 SCOTT, E.O.G. First Tasmanian record of the gulf gurnet perch, Neosebastes panticus McCulloch & Waite, 1918 (Scorpaenidae), with reports of poisoning by this species and some other Tasmanian fishes. Aust. Zool. 15, 234, 1970.

- 6204 SCOTT, H.H. Vegetal and fish poisoning. In, The Practice of Medicine in the Tropics. Byam, W. and Archibald, R.G. (eds.), Frowde & Hodder & Stoughton: London, 1921.
- 6205 SEELEY, H.G. Class Pisces—fishes. In, Cassell's Natural History. London, Vol. 5, p. 92, 1881.
- 6206 SETLIFF, J.A., RAYNER, M.D. and HONG, S.K. Effects of ciguatera toxin on Na transport across the frog skin. Toxicol. appl. Pharmacol. 18, 676, 1971; see also Physiologist 12, 353, 1969 (Abst.).
- 6207 SILVADO, J. Peixes nocivos da Bahia do Rio de Janeiro. Imprensa Nac.: Rio de Janeiro, 1911.
- 6208 SIMMONS, J.S., WHAYNE, T.F., ANDERSON, G.W. and HORA-ACK, H.M. Global Epidemiology. J.B. Lippincott: Philadelphia, 463p., 1944.
- 6209 SKEIE, E. Weeverfish toxin. Extraction methods, toxicity determinations and stability examinations. Acta Pathol. Microbiol. Scand. 55, 166, 1962.
- 6210 SKEIE, E. Weeverfish toxin. Some physico-chemical and immunological observations. Acta Pathol. Microbiol. Scand. 56, 229, 1962.
- 6211 SKEIE, E. Toxin of the weeverfish (Trachinus draco). Experimental studies on animals. Acta Pharmacol. Toxicol. 19, 107, 1962.
- 6212 SKEIE, E. [The venom organs of the weeverfish (Trachinus draco).] Meddelelser fra Danmarks Fiskeri-og Havundersøgelser 3, 327, 1962.
- 6213 SKEIE, E. Problemer vedrorende den giftige fisk fjaesing i Denmark. Nord. Med. 67, 429, 1962.
- 6214 SKEIE, E. Fjaesingstik, symptomatologi, patogenese og behandling samt folgetilstande. Nord. Med. 67, 435, 1962.
- 6215 SKEIE, E. Fjaesingstik. Munksgaard: Kobenhaven, 61p., 1965.
- 6216 SKEIE, E. [Weeverfish stings. Frequency, occurrence, clinical course, treatment and studies on the venom apparatus of the weeverfish, the nature of the toxin and immunological aspects.] Danish med. Bull. 13, 119, 1966.
- 6217 SLUNIN, N.V. [On the poisonous fishes of the Mediterranean Sea.] Medit. Pribav. Morsk. Sborniku, St. Petersburg 1, 269, 1892.
- 6218 SMITH, D.S., CAYER, M.L. and RUSSELL, F.E. Membrane-limited microtubular aggregates in the venom secreting cells of a stingray. Toxicon 12, 331, 1974.
- 6219 SMITH, D.S., CAYER, M.L., RUSSELL, F.E. and RUBIN, R.W. The fine structure of stingray venom-secreting cells. 5th Intern. Symp. Animal, Plant, Microbial Toxins, Costa Rica, p. 2, Aug. 1976 (Abst.).
- 6220 SMITH, D.S., CAYER, M.L., RUSSELL, F.E. and RUBIN, R.W. Fine structure of stingray spine epidermis with special reference to a unique microtubular component of venom secreting cells. In, Toxins. Animal, Plant and Microbial. Rosenberg, P. (ed.), Pergamon: Oxford, p. 565, 1978.
- 6221 SMITH, J.L.B. A case of poisoning by the stonefish, Synanceja verrucosa. Copeia 3, 207, 1951.

- 6222 SMITH, J.L.B. Two rapid fatalities from stonefish stabs. Copeia (3), 249, 1957.
- 6223 SMITH, J.L.B. The Sea Fishes of Southern Africa. Central News Agency, Ltd: Cape Town, 550p., 1950; 580p., 1961.
- 6224 SOROKIN, M. Medical hazards of the coral reef. Trans. Roy. Soc. trop. Med. Hyg. 69, 94, 1975.
- 6225 SOUTHCOTT, R.V. Notes on stings of some venomous Australian fishes. Med. J. Aust. (2), 722, 1970.
- 6226 SOUTHCOTT, R.V. Venomous and poisonous fish; their identification, symptoms and treatment. Impulse (Suppl.), Sept. 1, 1973.
- 6227 SOUTHCOTT, R.V. The neurologic effects of noxious marine creatures. In, Contemporary Neurology Series. Hornabrook, R.W. (ed.), F.A. Davis: Philadelphia, Vol. 12, p. 165, 1975.
- 6228 SOUTHCOTT, R.V. Australian Venomous and Poisonous Fishes. Mitcham, S. Australia, 1975.
- 6229 SOUTHCOTT, R.V. Australian venomous and poisonous fishes. Clin. Toxicol. 10, 291, 1977.
- 6230 SOUTHCOTT, R.V. Marine envenomation and intoxication in man. In, Neurotoxins. Fundamental and Clinical Advances. Chubb, I.W. and Geffen, L.D. (eds.), Adelaide Univ. Union Press: Adelaide, p. 75, 1978.
- 6231 SOUTHCOTT, R.V. Marine toxins. In, Handbook of Clinical Neurology. Vinken, P.J. and Bruyn, G.W. (eds.), North-Holland: Amsterdam, Vol. 37, part 2, p. 27, 1979.
- 6232 SPITZLY, J.H. Acute poisoning by Trachinus vipera in Normandy. Br. med. J. (2), 1915, 1910.
- 6233 STARKES, E.C. The skates and rays of California with an account of the rat fish. Calif. Fish Game 4, 1, 1918.
- 6234 STARKES, E.C. The primary shoulder girdle of the bony fishes. Stanford Univ. Publ. Biol. Ser. 6, 1, 1930.
- 6235 STEAD, D.G. Fishes of Australia: A Popular and Systematic Guide to the Study of the Wealth Within Our Waters. W. Brooks: Sydney, 278p., 1906.
- 6236 STEFANSSON, T.A. and STEFANSSON, A. Clinical features and epidemiology of weever-fish stings. A prospective study in general practice. Useskr. Laeger 142, 2270, 1980.
- 6237 STEINITZ, H. Observations on Pterois volitans (L.) and its venom. Copeia (2), 158, 1959.
- 6238 STEINSCHNEIDER, M. Die toxikologischen Schriften der Araber bis Ende. Arch. Pathol. Anat. Physiol. 52, 340, 467, 1871.
- 6239 STRONG, R.P. Poisonous arthropods, fish and coelenterates. In, Stitt's Diagnosis, Prevention and Treatment of Tropical Diseases. Blakiston: Philadelphia, Vol. II, p. 1538, 1544, 1944.
- 6240 STRUHSAKER, P. Observations on the biology and distribution of the thorny stingray, Dasyatis centroura, Pisces - Dasyatidae. Bull. mar. Sci. 19, 456, 1969.
- 6241 SUTHERLAND, S.K. Treatment of venomous animal bites and stings in Australia. Med. J. Aust. (1), 177, 1976.

6242 TAFT, C.H. Poisonous marine animals. Texas Rept. Biol. Med. 3, 339, 1945.

6243 TANGE, Y. Beitrag zur Kenntnis der Morphologie des Giftapparates bei den japanischen Fischen, nebst Bemerkungen über dessen Giftigkeit. I. Über das Vorkommen des Giftapparates bei den japanischen Knochenfischen. Yokohama med. Bull. 4, 120, 1953.

6244 TANGE, Y. Beitrag zur Kenntnis der Morphologie des Giftapparates bei den japanischen Fischen, nebst Bemerkungen über dessen Giftigkeit. II. Über den Giftapparat bei Pterois lunulata Temminck et Schlegel. Yokohama med. Bull. 4, 178, 1953.

6245 TANGE, Y. Beitrag zur Kenntnis der Morphologie des Giftapparates bei den japanischen Fischen, nebst Bemerkungen über dessen Giftigkeit. III. Über den Giftapparat bei Apistus evolans Jordan et Starks. Yokohama med. Bull. 4, 318, 1953.

6246 TANGE, Y. Beitrag zur Kenntnis der Morphologie des Giftapparates bei den japanischen Fischen, nebst Bemerkungen über dessen Giftigkeit. IV. Über den Giftapparat bei Minous adamsii Richardson. Yokohama med. Bull. 4, 374, 1953.

6247 TANGE, Y. Beitrag zur Kenntnis der Morphologie des Giftapparates bei den japanischen Fischen, nebst Bemerkungen über dessen Giftigkeit. V. Über den Giftapparat bei Hypodytes rubripinnis (Temminck et Schlegel). Yokohama med. Bull. 5, 42, 1954.

6248 TANGE, Y. Beitrag zur Kenntnis der Morphologie des Giftapparates bei den japanischen Fischen, nebst Bemerkungen über dessen

Giftigkeit. VI. Über den Giftapparat bei Erosa erosa (Langsdorf). Yokohama med. Bull. 5, 118, 1954.

6249 TANGE, Y. Beitrag zur Kenntnis der Morphologie des Giftapparates bei den japanischen Fischen. VII. Über den Giftapparat bei Inimicus japonicus (Cuvier et Valenciennes). Yokohama med. Bull. 5, 234, 1954.

6250 TANGE, Y. Beitrag zur Kenntnis der Morphologie des Giftapparates bei den japanischen Fischen. VIII. Über den Giftapparat bei Scorpaenodes littoralis (Tanaka). Yokohama med. Bull. 5, 383, 1954.

6251 TANGE, Y. Beitrag zur Kenntnis der Morphologie des Giftapparates bei den japanischen Fischen. IX. Über den Giftapparat bei Sebastodes inermis (Cuvier et Valenciennes). Yokohama med. Bull. 5, 429, 1954.

6252 TANGE, Y. Beitrag zur Kenntnis der Morphologie des Giftapparates bei den japanischen Fischen. X. Über den Giftapparat bei Sebastolobus macrochir (Günther). Yokohama med. Bull. 6, 46, 1955.

6253 TANGE, Y. Beitrag zur Kenntnis der Morphologie des Giftapparates bei den japanischen Fischen, nebst Bemerkungen über dessen Giftigkeit. XI. Über den Giftapparat bei Siganus fuscescens (Houttuyn). Yokohama med. Bull. 6, 115, 1955.

6254 TANGE, Y. Beitrag zur Kenntnis der Morphologie des Giftapparates bei den japanischen Fischen. XII. Über den Giftapparat bei Siganus fuscescens (Cuvier et Valenciennes). Yokohama med. Bull. 6, 171, 1955.

- 6255 TANGE, Y. Beitrag zur Kenntnis der Morphologie des Giftapparates bei den japanischen Fischen, nebst Bemerkungen über dessen Giftigkeit. XIII. Über den Giftapparat bei Liobagrus reinii (Hilgendorf). Yokohama med. Bull. 6, 255, 1955.
- 6256 TANGE, Y. Beitrag zur Kenntnis der Morphologie des Giftapparates bei den japanischen Fischen. XIV. Über den Giftapparat bei Pseudeobargus aurantiacus (Temminck & Schlegel). Yokohama med. Bull. 6, 345, 1955.
- 6257 TANGE, Y. Beitrag zur Kenntnis der Morphologie des Giftapparates bei den japanischen Fischen. XV. Über den Giftapparat bei Plotosus anguillaris (Lacépède). Yokohama med. Bull. 6, 424, 1955.
- 6258 TANGE, Y. Beitrag zur Kenntnis der Morphologie des Giftapparates bei den japanischen Fischen. XVI. Zusammenfassende Betrachtung über den Giftapparat. Yokohama med. Bull. 8, 62, 1957.
- 6259 TANGE, Y. Beitrag zur Kenntnis der Morphologie des Giftapparates bei den japanischen Fischen. XVII. Über die Entwicklungsgeschichte des Giftapparates bei den Giftfischen. Yokohama med. Bull. 8, 127, 1957.
- 6260 TASCHENBERG, E.O. Die giftigen Tiere. Ferdinand Enke: Stuttgart, p. 262, 1944.
- 6261 TAYLOR, P.B. The venom and ecology of the California scorpionfish Scorpaena guttata Girard. Thesis, Univ. Calif., San Diego, 138p., 1963.
- 6262 TENISON-WOODS, J.E. Fish and Fisheries of New South Wales. Thomas Richards: Sydney, 1882.
- 6263 THIENES, C.H. and HALEY, T.J. Clinical Toxicology. Lea & Febiger: Philadelphia, 457p., 1955.
- 6264 THILO, O. Nachbildungen von Sperrgelenken an Fischstacheln und Giftstacheln von Fischen. Korrespbl. Naturf. Ver. Riga 40, 87, 1898.
- 6265 THIKHOMIROV, V.M. [On noxious fishes and fish poison.] Farmats-evt 7, 313, 1897.
- 6266 TIMOSHIN, A.G. [On the poisonous fishes of the Black Sea.] Vestn. Dermatol. Venereol. 34, 64, 1960.
- 6267 TINKER, S.W. Hawaiian Fishes. Tong Publ. Co.: Honolulu, 444p., 1944.
- 6268 TIRANT, G. Oeuvre ichthyologique de G. Tirant. Excurs. et Recon., 9-10, 1885; reprinted: Notes sur les poissons de la Basse-Cochinachine et du Cambodge. Note Sta. Marit. Cauda, Serv. Oceanogr. Pêches Indochine 6, 95, 1929.
- 6269 TOMLIN, E.W.F. The Ainu: their history and culture. J. Roy. Cent. Asian Soc. 53, 297, 1966.
- 6270 TOYOSHIMA, T. [Serological study of toxin of the fish Plotosus anguillaris Lacépède.] J. Jpn. Protoz. Soc. 6, 45, 1913.
- 6271 TUMA, V. Les glandes vénéneuses chez la rasczsee (Scorpaena porcus L.). Acad. Tchèque Sci. Bull. Internat. Rés. Trav. Présent, U. Sci. Mat., Nat. Méd. 28, 153, 1927.
- 6272 TWEEDIE, M.W.F. Poisonous Animals of Malaya. Malaya Publ. House: Singapore, 90p., 1941.
- 6273 TYBRING, O. Poisonous fish. Bull. U.S. Fish. Comm. 6, 148, 1887.

- 6274 ULMER. Tod durch den Stich eines Trachinus draco. Allg. Mill. Arztl. Ztg., Wien 6, 329, 1865.
- 6275 VALLI, V. Antimalarial campaign, 1926-1927. Riv. malariol. 7, 104, 1928.
- 6276 VELLARD, J. Venin des raies (Taeniura) du Rio Araguaya (Brésil). C.R. Acad. Sci. 192, 1279, 1931.
- 6277 VELLARD, J. Le venin des raies de L'Arazuaya. Ann. Acad. Braz. Sci. 6, 155, 1934.
- 6278 VELLARD, Cuatro conferencias sobre animales venenosos dictadas en 1943 en el Museo Argentino de Ciencias Naturales y en la Facultad de Ciencias Médicas de Buenos Aires. Inst. Univ. París en Buenos Aires, 77p., 1944.
- 6279 VERNONI, G. [Effect of intraperitoneal or subcutaneous injection on the toxicity of poisons.] Sperimentale 79, 23, 1925.
- 6280 VICTORIA FISH & GAME DEPT. Poisonous and harmful fishes of Victoria. Fish. Circ. Vict. 2, 1959.
- 6281 VIQUEZ, S.C. Animales venenosos de Costa Rica. San José, Costa Rica, 313p., 1935; (2nd edit., 1940).
- 6282 VON FRANQUE, A. Vergiftungszufälle nach dem Genuss der Eier der Barbe (Cyprinus barbus). Deut. Klin. 10, 133, 1858; see also J. Kinderkr. 526, 1859.
- 6283 WAINSCHEL, J. Spiders, scorpions and fish. Med. Wld. News, Sept. 15, 12G, 1972.
- 6284 WALFORD, L.A. Sharks and Rays of California. Fish. Bull., Calif. Fish Game (60), 1935.
- 6285 WALFORD, L.A. Marine Game Fishes of the Pacific Coast from Alaska to the Equator. Univ. Calif. Press: Berkeley, 205p., 1937.
- 6286 WALLACE, L.B. The structure and development of the axillary gland of Batrachus. J. Morph. 8, 563, 1893.
- 6287 WASSERMAN, G.S. and JOHNSON, R.M. Poisoning from a lionfish sting. Vet. hum. Toxicol. 5, 344, 1979.
- 6288 WEBER, M. and DE BEAUFORT, L.F. The Fishes of the Indo-Australian Archipelago. E.J. Brill: Leiden, p. 2, 1913.
- 6289 WENT, A.E.J. The greater weever, Trachinus draco L., in Irish waters. Irish nat. J. 10, 332, 1952.
- 6290 WENT, A.E.J. The greater weever, Trachinus draco Cuv. from the coast of County Cork. Irish nat. J. 11, 136, 1954.
- 6291 WHITLEY, G.P. Ichthyological miscellanea. Mem. Queensland Mus. 10, 8, 1930.
- 6292 WHITLEY, G.P. Fishes. Great Barrier Reef Expedition 1928-1929. Sci. Rept. 4, 306, 1932.
- 6293 WHITLEY, G.P. The fishes of Australia. Part 1, sharks and rays, devil fish, and other primitive fishes of Australia and New Zealand. Roy. zool. Soc. New S. Wales, p. 280, 1940.
- 6294 WHITLEY, G.P. Venomous fishes. Fish. News Lett. 2, 7, 1943.
- 6295 WHITLEY, G.P. Poisonous and harmful fishes. Bull. Council. sci. indust. Res. 159, 28, 1943.

- 6296 WHITLEY, G.P. The fishes of New Guinea. Aust. Mus. Mag. 8, 141, 1943.
- 6297 WHITLEY, G.P. Solvol Fish Book. Sydney, 18p., 1949.
- 6298 WHITLEY, G.P. Dangerous Australian fishes. Proceedings First Intern. Convention Life Saving Tech. Suppl. Bull. Post Grad Comm. Med., Univ. Sydney, 131p., 1963.
- 6299 WHITLEY, G.P. and BOARDMAN, W. Quaint creatures of a coral isle. Aust. Mus. Mag. 3, 366, 1929.
- 6300 WHITLEY, G.P. and HALSTED, B.W. An annotated bibliography of the poisonous and venomous fishes of Australia. Rec. Aust. Mus. 23, 211, 1955.
- 6301 WIENER, S. Stone-fish sting and its treatment. Med. J. Aust. (2), 218, 1958.
- 6302 WIENER, S. Observations on the venom of the stone fish (Synanceja trachynis). Med. J. Aust. (1), 620, 1959.
- 6303 WIENER, S. The production and assay of stone-fish antivenene. Med. J. Aust. (2), 715, 1959.
- 6304 WIENER, S. Stonefish venom. Prcc. First Intern. Convention Life Saving Techniques. Suppl. Bull. Post Grad. Comm. Med., Univ. Sydney, p. 28, 1963.
- 6305 WIENER, S. A case of stone-fish sting treated with antivenene. Med. J. Aust. (1), 191, 1965.
- 6306 WOODWARD, H. Discovery of poison organs in fishes. Intellect. Observ. 5, 253, 1864.
- 6307 WRIGHT-SMITH, R.J. A case of fatal stabbing by stingray. Med. J. Aust. (2), 466, 1945.
- 6308 WUTH, E.M. On fish-poison. Aust. med. J. (22), 273, 1877.
- 6309 YONGE, C.M. A Year on the Great Barrier Reef. The Story of Corals and of the Greatest of Their Creations. Putnam: London, 246p., 1930.
- 6310 ZAHN, C. Rattlesnake of the sea. Natur. Hist. 51, 100, 1943.
- 6311 ZAMMIT, L. More about weever fish and their toxic stings. St. Luke's Hosp. Gaz. 9, 108, 1974.
- 6312 ZIPRKOWSKI, L. and SHEWACH-MILLET, M. Trauma caused by the sting of a fish, Trachinus araneus Cur. Z. Harefuah 65, 219, 1963.
- 6313 ZLOTKIN, E. Chemistry of animal venoms. Experientia 29, 1453, 1973.

CHAPTER XI

SEA SNAKES

The venomous sea snakes are composed of two families, the Hydrophiidae, or true sea snakes, and the Laticaudae, or sea kraits. There are approximately 60 marine and one fresh water species. One species, Pelamis platurus, ranges from the west coast of Latin America to the Pacific and Indian Oceans and the east coast of Africa. In general, sea snakes inhabit coastal waters, particularly near the mouths of rivers. Since they require air, sea snakes live at depths from which they can reach the ocean bottom yet gain the surface for air. Like the terrestrial elapids, they have two small fangs situated in the anterior upper jaw. The venom is produced in the venom glands and transferred to the fangs by means of venom ducts, as in other venomous snakes. More than 20 species of sea snakes have been implicated in bites on humans.

Although some terrestrial venomous snakes may frequently be found in marine waters, references to these have not been cited in this text. The reader is referred to citation 6405 for a discussion of the sea snakes.

- 6316 ABE, T. and TAMIYA, N. Immunological studies on erabutoxin b, a sea snake toxin: attempts to locate the amino acid residues determining antigenicity. Toxicol 17, 571, 1979.
- 6317 ANON. Poisonous snakes of Central and South America. Inf. Bull. No. 21, Hdqtrs., Army Air Forces, Orlando, Florida, 1945.
- 6318 ANON. Poisonous snakes of Europe, Africa and Near East. Inf. Bull. No. 22, Hdqtrs., Army Air Forces, Orlando, Florida, 1945.
- 6319 ANON. Poisonous snakes of South-eastern Asia. Inf. Bull. No. 23, Hdqtrs., Army Air Forces, Orlando, Florida, 1945.
- 6320 ANON. Poisonous snakes of Australia, New Guinea and the Pacific Islands. Inf. Bull. No. 24, Hdqtrs., Army Air Forces, Orlando, Florida, 1945.
- 6321 ANON. Plenary session: report of "B" group. Proc. First Intern. Convention Life Saving Techniques, Part 3, Sci. Sect. Bull. Post Grad. Comm. Med., Univ. Sydney, Australia, p. 121, 1963.
- 6322 ANON. Venomous sea snakes. J.A.M.A. 193, 1133, 1965.
- 6323 ANON. Sea snake venom structure probed. Chem. eng. News 49, 25, 1971.
- 6324 ANON. Ancient hazard—snakebite—still a problem. J.A.M.A. 225, 1295, 1973.
- 6325 ANON. Water, water everywhere. Emerg. Med. 5, 108, 1973.
- 6326 ANON. Chinese Poisonous Snakes and the Prevention and Cure of Snakebites. Shanghai Peoples Publ. Co.: Shanghai, 349p., 1974.
- 6327 ANSON, G. Voyage Round the World in the Years 1740-4. Walter, R. (ed.), John & Paul Knapton: London, 1740.
- 6328 ARAI, H. and TAMIYA, N. [Investigation of sea snake venom protein.] Proc. Tampaku Kozo Toronkai, Fukuoka, 1965.
- 6329 ARAI, H., TAMIYA, N., TOSHIOKA, S., SHINONAGA, S. and KANO, R. Studies on sea-snake venoms. I. Protein nature of the neurotoxic component. J. Biochem. Tokyo 56, 568, 1964.
- 6330 BAGNIS, R., BERGLUND, F., ELIAS, P.S. et al. Problems of toxicants in marine food products I. Marine biotoxins. Bull. Wld. Hlth. Org. 42, 69, 1970.
- 6331 BANERJEE, S., DEVI, A. and COPLEY, A.L. Studies of actions of snake venoms on blood coagulation. II. Electrophoretic analysis of venoms of Viperidae, Crotalidae, Elapidae and Hydrophiidae. Thromb. Res. 3, 451, 1973.
- 6332 BARBER, D.W., JR., PUFFER, H.W., TAMIYA, N. and SHYNKAR, T.P. Aspects of the neuromuscular activity of sea snake venom. Proc. west. Pharmacol. Soc. 17, 235, 1974.
- 6333 BARME, M. Studies of poisonous sea snakes (Hydrophiidae) of Viet-Nam. Bull. Soc. path. exot. 51, 258, 1958.
- 6334 BARME, M. Contribution à l'étude des serpents marins venimeux Hydrophiidae du Viet Nam. Bull. Soc. Pathol. exot. 51, 258, 1958.
- 6335 BARME, M. Serpents marins venimeux (Hydrophiidae) et leurs venins. Rapp. Fonct. tech. Inst. Pasteur, Saigon, p. 52, 1960.

- 6336 BARME, M. Venomous sea snakes of Viet Nam and their venoms. In, Venomous and Poisonous Animals and Noxious Plants of the Pacific Region. Keegan, H.L. and Macfarlane, W.V. (eds.), Pergamon: Oxford, p. 373, 1963.
- 6337 BARME, M. Venomous sea snakes (Hydrophiidae). In, Venomous Animals and Their Venoms, Vol. I, Venomous Vertebrates. Bucherl, W., Buckley, E. and Deulofeu, V. (eds.), Academic: N.Y., p. 285, 1968.
- 6338 BARME, M. and DETRAIT, J. Étude de la composition des venins des Hydrophiidés. C.R. Acad. Sci. 248, 312, 1959.
- 6339 BARME, M. and MEAUME, J. A sea-snake from New Caledonia: Laticauda colubrina, and its venom. Simpósio Int. Venom. Anim., São Paulo, p. 78, 1966 (publ. 1968).
- 6340 BARME, M., HURAD, M. and NGUYEN, X.M. Preparation d'un serum antivenin d'hydrophides. Premier essais thérapeutiques. Ann. Inst. Pasteur, Paris 102, 497, 1962.
- 6341 BAXTER, E.H. and GALLICHIO, H.A. Cross-neutralization by tiger snake (Notechis scutatus) antivenene and sea snake (Enhydrina schistosa) antivenene against several sea snake venoms. Toxicon 12, 273, 1974.
- 6342 BAXTER, E.H. and GALLICHIO, H.A. Protection against sea snake envenomation: comparative potency of four antivenenes. Toxicon 14, 347, 1976.
- 6343 BECKE, L. Venomous sea-snakes. In, Neath Austral Skies. Becke, L. (ed.), J. Milne: London, p. 305, 1909.
- 6344 BEHRING, E.V. Die Giftschlangen der Erde. N.G. Elwert Universitäts- und Verlags-Buchhandlung Marburg/Lahn, 464p., 1963.
- 6345 BEIRDRAGER, J. Een geval van massale schildpadvergiftiging in Nw. Guinee. Geneesk. Tijdschr. Ned.-Ind. 76, 1933, 1936.
- 6346 BHIDE, M.B. and BHIDE, S.B. Neuromuscular blockade by venom of Hydrophis cyanocinctus. Indian Pharmacol. Soc. 4th Symp., 12, 1976 (Abst.).
- 6347 BIEBER, A.L. Purification and chemical characterization of the major neurotoxin from the venom of Pelamis platurus. Biochemistry 14, 3408, 1975.
- 6348 BOKMA, H. Doodlijke Vergiftiging door den beet van een Zeesland Enhydrina schistosa (Daudin). Geneesk. Tijdschr. Ned.-Ind. 81, 1926, 1941.
- 6349 BOKMA, H. Nog eens een beet van een zeeslang. Geneesk. Tijdschr. Ned.-Ind. 82, 87, 1942.
- 6350 BOLAÑOS, R. Toxicity of Costa Rican snake venoms for the white mouse. Am. J. trop. Med. Hyg. 21, 360, 1972.
- 6351 BOLAÑOS, R., FLORES, A. and TAYLOR, R.T. Color patterns, venom yields, and toxicity in Pelamis platurus. Am. Soc. Ichthyol. Herp. 53rd Ann. Meet., San Jose, Costa Rica, 1973 (Abst.).
- 6352 BOLAÑOS, R., FLORES, A., TAYLOR, R.T. and CERDAS, L. Color patterns and venom characteristics in Pelamis platurus. Copeia 4, 909, 1974.
- 6353 BOQUET, P. Venins de Serpents. (Special Communication), P.P. Grasse: Paris, 122p., 1963.

- 6356 BOQUET, P. Venins de serpents. In, Traité de Zoologie. Grassé, P.P. (ed.), Masson & Cie: Paris, vol. 14, p. 599, 1970.
- 6355 BOQUET, P., DUMAREY, C. and JOSEPH, D. Nouvelles recherches sur l'antigenicité des protéines toxiques des venins d'Elapidae et d'Hydrophidae. C.R. Hebd. Seanc. Acad. Sci., Paris 284, Series D, 2439, 1977.
- 6356 BOQUET, P., DUMAREY, C. and JOSEPH, D. The problem of the antigenicity of some short toxins of Elapidae and Hydrophidae venoms. In, Toxins. Animal, Plant and Microbial. Rosenberg, P. (ed.), Pergamon: Oxford, p. 71, 1978.
- 6357 BOQUET, P., IZARD, Y. and RONSERAY, A.M. An attempt to classify by serological techniques the toxic proteins of low molecular weight extracted from Elapidae and Hydrophidae venoms. J. Formosan med. Assoc. 71, 307, 1972.
- 6358 BOQUET, P., MEAUME, J. and VACHON, M. Morsures et Piqûres d'Animaux Venimeux Terrestres. 84p., 1968.
- 6359 BOQUET, P., IZARD, Y., DUMAREY, C. and DÉTRAIT, J. Antigenicité et pouvoir immunogène des toxines extraites des venins d'Elapidae et d'Hydrophiidae. Experientia 29, 1467, 1973.
- 6360 BOQUET, P., POILLEUX, G., DUMAREY, C., IZARD, Y. and RONSERAY, A.-M. An attempt to classify the toxic proteins of Elapidae and Hydrophidae venoms. Toxicon 11, 333, 1973.
- 6361 BOURRET, R. Les serpents marins de l'Indochine Française. Gouv. Gen. de l'Indochine, Hanoi, 1934.
- 6362 BUCKLAND, F. Sea-snake caught in telegraph submarine wire. Land and Water (London) p. 414, Nov. 15, 1879.
- 6363 BURNE, J.A. The action of erabutoxin b in the cerebral cortex: evidence for short latency potentially nicotinic neurones. Life Sci. 23, 775, 1978.
- 6364 BURNE, J.A. and WEBSTER, M.E. The action of erabutoxin b on spontaneous and glutamate-induced cortical activity. Life Sci. 20, 2023, 1977.
- 6365 BURNS, B. and PICKWELL, G.V. Cephalic glands in sea snakes (Pelamis, Hydrophis, and Laticauda). Copeia 3, 547, 1972.
- 6366 BYRNE, K. Injuries and diseases in Australia attributable to animals. Med. J. Aust. (2), 539, 1924.
- 6367 CALMETTE, A. Les Venins. Les Animaux Venimeux et la Sérothérapie Antivenimeuse. Masson & Cie: Paris, 396p., 1907.
- 6368 CALMETTE, A. Venoms. Venomous Animals and Antivenomous Serum-Therapeutics. John Bale, Sons & Danielsson: London, 1908.
- 6369 CAMPBELL, C.H. Clinical aspects of snake bite in the Pacific area. Toxicon 7, 25, 1969.
- 6370 CAMPBELL, C.H. The effects of snake venoms and their neurotoxins on the nervous system of man and animals. In, Topics on Tropical Neurology. Hornabrook, R.W. (ed.), F.A. Davis: Philadelphia, p. 259, 1975.
- 6371 CAMPBELL, C.H. Snake Bite, Snake Venoms and Venomous Snakes of Australia and New Guinea. An Annotated Bibliography. Univ. Sydney. Service Publ. No. 13,

Union Offset Co.: Canberra,
222p., 1976.

- 6372 CANTOR, T. On pelagic serpents. Trans. Zool. Soc. 2, 303, 1841.
- 6373 CAREY, J.E. and WRIGHT, E.A. The toxicity and immunological properties of some sea-snake venoms with particular reference to that of Enhydrina schistosa. Trans. Roy. Soc. trop. Med. Hyg. 54, 50, 1960.
- 6374 CAREY, J.E. and WRIGHT, E.A. Isolation of the neurotoxic component of the venom of the sea snake, Enhydrina schistosa. Nature 185, 103, 1960.
- 6375 CAREY, J.E. and WRIGHT, E.A. The site of action of the venom of the sea snake Enhydrina schistosa. Trans. Roy. Soc. trop. Med. Hyg. 55, 152, 1961.
- 6376 CAREY, J.E. and WRIGHT, E.A. Studies on the fractions of the venom of the sea-snake Enhydrina schistosa. Aust. J. exp. Biol. med. Sci. 40, 427, 1962.
- 6377 CHAN, K.E. and GEH, S.L. Antagonism of intra-arterial acetylcholine induced contraction of skeletal muscle by sea snake venom. Nature 213, 1147, 1967.
- 6378 CHAN, K.E. and CHANG, P. Normal ganglionic transmission in the presence of acetylcholine block by sea snake (Enhydrina schistosa) venom. Europ. J. Pharmacol. 13, 277, 1971.
- 6379 CHANG, C.C. The action of snake venoms on nerve and muscle. In, Handbook of Experimental Pharmacology, Vol. 52, Snake Venoms. Lee, C.Y. (ed.), Springer-Verlag: Berlin, p. 309, 1979.
- 6380 CHANG, T.W. and TANG, N. Selection pressures on homologous proteins of varied activities. Nature New Biol. 239, 207, 1972.
- 6381 CHANG, W.Y., LU, C.C. and TU, T.C. Effect of the venom of a sea snake, Laticauda semifasciata (Reinwardt) on the capillary permeability in rabbits. J. Formosan med. Assoc. 58, 740, 1959.
- 6382 CHEYMOL, J., BOURILLET, F. and ROCH-ARVEILLER, M. Action neuromusculaire des venins de quelques Crotalidae, Elapidae et Hydrophiidae. Mem. Inst. Butantan 33, 541, 1966.
- 6383 CHEYMOL, J., BOURILLET, F. and ROCH-ARVEILLER, M. Venins et toxines de serpents effets neuromusculaires. Actual. Pharmacol. 25, 179, 1972.
- 6384 CHEYMOL, J., BOURILLET, F. and ROCH-ARVEILLER, M. Actions neuromusculaires de fractions isolées de venins de serpents. In, Toxins of Animal and Plant Origin. deVries, A. and Kochva, E. (eds.), Gordon & Breach: N.Y., vol. 2, p. 655, 1972.
- 6385 CHEYMOL, J., BARME, M., BOURILLET, F. and ROCH-ARVEILLER, M. Action neuromusculaire de trois venins d'Hydrophiides. Toxicon 5, 111, 1967.
- 6386 CHEYMOL, J., TAMIYA, N., BOURILLET, F. and ROCH-ARVEILLER, M. Action neuromusculaire du venin de serpent marin "erabu" (Laticauda semifasciata) et des erabutoxines a et b. Toxicon 10, 125, 1972.
- 6387 CLARK, H.C. Venomous snakes. Some Central American records. Incidence of snake-bite accidents. Am. J. trop. Med. 22, 37, 1942.

- 6388 COGGER, H.G. Sea-snakes. Aust. Mus. Mag. 13, 37, 1959.
- 6389 COGGER, H.G. Sea-snakes. Proc. First Intern. Convention Life Saving Techniques. Part 3, Sci. Sect., Bull. Post Grad. Comm., Univ. Sydney, Australia, p. 5, 1963.
- 6390 COPE, E.D. Catalogue of the venomous serpents in the museum of the Academy of Natural Sciences of Philadelphia, with notes on the families, genera and species. Proc. nat. Sci. Philadelphia 11, 332, 1839.
- 6391 COPLEY, A.L., BANERJEE, S. and DEVI, A. Studies of snake venoms on blood coagulation. I. The thromboserpentin (thrombinlike) enzyme in the venoms. Thromb. Res. 2, 487, 1973.
- 6392 CROPP, B. Sea snakes. Oceans 3, 48, 1970.
- 6393 CURRAN, C.H. and KAUFFELD, C. Les Serpents. Payot: Paris, 201p., 1951.
- 6394 DA FONSECA, F. Animais Peçonhentos. Instituto Butantan: São Paulo, 376p., 1949.
- 6395 DAY, F. On the bite of the sea snake. Ind. med. Gaz. 4, 92, 1869.
- 6396 DEORAS, P.J. Snakes, How to Know Them. Govt. of Bombay: Bombay, India, 34p., 1959.
- 6397 DEPARTMENT OF THE NAVY. Poisonous Snakes of the World. U.S. Govt. Print. Off.: Washington, 176p., 1962.
- 6398 DE SILVA, A. Venomous snakes of Sri Lanka. The Snake 8, 31, 1976.
- 6399 DOIG, M.T., III, MARTIN, D.F. and PADILLA, G.M. Marine bioactive agents: chemical and cellular correlates. In, Marine Pharmacognosy. Action of Marine Biotoxins at the Cellular Level. Martin, D.F. and Padilla, G.M. (eds.), Academic: N.Y., p. 1, 1973.
- 6400 DOWDALL, M.J., FOHLMAN, J.P. and WATTS, A. Presynaptic action of snake venom neurotoxins on cholinergic systems. In, Advances in Cytoparmacology, Vol. 3, Neurotoxins: Tools in Neurobiology. Ceccarelli, B. and Clementi, F. (eds.), Raven Press: N.Y., p. 63, 1979.
- 6401 DOWLING, H., MINTON, S. and RUSSELL, F.E. Poisonous Snakes of the World. U.S. Govt. Print. Off.: Washington, 176p., 1968.
- 6402 DRENTH, J., LOW, B.W., RICHARDSON, J.S. and WRIGHT, C.S. The toxin-agglutinin fold. A new group of small protein structures organized around a four-disulfide core. J. biol. Chem. 255, 2652, 1980.
- 6403 DUFTON, M.J. and HIDER, R.C. Snake toxin secondary structure predictions. Structure activity relationships. J. mol. Biol. 115, 177, 1977.
- 6404 DUGGAN, R.T. and LOFTS, B. Steroid synthesis in the adrenal gland of the sea snake Hydrophis cyanocinctus: the metabolism of exogenous precursors. Gen. comp. Endocrinol. 36, 415, 1978.
- 6405 DUGGAN, R.T. and LOFTS, B. Adaptation to fresh water in the sea snake Hydrophis cyanocinctus: tissue electrolytes and peripheral corticosteroids. Gen. comp. Endocrinol. 36, 510, 1978.
- 6406 DUGGAN, R.T. and LOFTS, B. The pituitary-adrenal axis in the sea snake, Hydrophis cyanocinctus. Gen. comp. Endocrinol. 38, 374, 1979.

- 6407 DUNSON, W.A. The Biology of Sea Snakes. University Park Press: Baltimore 530p., 1975.
- 6408 EDMONDS, C. Dangerous Marine Animals of the Indo-Pacific Region. (Diving Medical Centre Monograph on Identification, First Aid and Medical Treatment). Biomed. Marine Serv.: Masman, Australia, 235p., 1974.
- 6409 EDMONDS, C. Dangerous marine animals. Aust. family Phys. 5, 381, 1976.
- 6410 EMELIANOV, A.A. [Snakes of the Far Eastern District.] Russian State Geograph. Soc.: Vladivostok, 208p., 1929.
- 6411 ENDEAN, R. Neurotoxins occurring in marine animals from Australian waters. In, Neurotoxins. Fundamental and Clinical Advances. Chubb, I.W. and Geffen, L.B. (eds.), Adelaide Univ. Union Press: Adelaide, S. Aust., p. 57, 1979.
- 6412 ENDO, Y., SATO, S., ISHII, S. and TAMIYA, N. The disulphide bonds of erabutoxin a, a neurotoxic protein of a sea-snake (Laticauda semifasciata) venom. Biochem. J. 122, 463, 1971.
- 6413 FAUST, E.S. Die Tierischen Gifte. Friedrich Vieweg & Sohn: Braunschweig, p. 37, 1906.
- 6414 FAYRER, J. The Thanatophidia of India. J. & A. Churchill: London, 1872.
- 6415 FAYRER, J. Venomous animals. Edinburgh med. J. 23, 97, 1877.
- 6416 FERRY, C.B. and GEH, S.L. An electrophysiological study of the action of crude Enhydrina schistosa venom. Br. J. Pharmacol. 60, 238, 1977.
- 6417 FISCHER, J.G. Die Familie der Seeschlangen. 2nd edit., Hamburg, 1856.
- 6418 FISH, C.J. and COBB, M.C. Noxious Marine Animals of the Central and Western Pacific Ocean. Res. Rept. (36), Fish & Wildlife Serv., U.S. Dept. Interior, 1954.
- 6419 FITZSIMONS, F.W. The Snakes of South Africa. T. Maskew Miller: Capetown, 547p., 1912.
- 6420 FOHLMAN, J. and EAKER, D. Isolation and characterization of a lethal myotoxic phospholipase A from the venom of the common sea snake Enhydrina schistosa causing myoglobinuria in mice. Toxicon 15, 385, 1977.
- 6421 FOSSEN, A. Vergiftiging door den beet van zeeslangen. Geneesk. Tijdschr. Ned.-Ind. 80, 1164, 1940.
- 6422 FOX, J.W., ELZINGA, M. and TU, A.T. Amino acid sequence of snake neurotoxin from the venom of Lapemis hardwickii and the detection of a sulphydryl group by laser Raman spectroscopy. FEBS Lett. 80, 217, 1977.
- 6423 FOX, J. and TU, A.T. Conformational analysis of a snake neurotoxin by prediction from sequence, circular dichroism, and Raman spectroscopy. Arch. Biochem. Biophys. 193, 407, 1979.
- 6424 FRASER, T.R. and ELLIOTT, R.H. Contribution to the study of the action of the venom of the sea-snake. Lancet 2, 141, 1904.
- 6425 FRASER, T.R. and ELLIOTT, R.H. Contributions to the study of the action of sea-snake venoms. Proc. Roy. Soc. 74, 104, 1904.

- 6426 FRASER, T.R. and ELLIOT, R.H. Contributions to the study of the action of sea-snake venoms. Part I. Venoms of Enhydrina valakadien and Enhydris curtus. Phil. Trans. Roy. Soc. London B197, 249, 1905.
- 6427 FREYVOGEL, T.A. Poisonous and venomous animals in East Africa. Acta Tropica 29, 401, 1972.
- 6428 FREYVOGEL, T.A. and HOFMANN, E. Schlangenbisse und ihre Behandlung/Snake bite and its treatment. Acta Tropica 22, 11, 1965.
- 6429 FRIEDERICH, C. and TU, A.T. Role of metals in snake venoms for hemorrhagic, esterase and proteolytic activities. Biochem. Pharmacol. 20, 1549, 1971.
- 6430 FRYKLUND, L., EAKER, D. and KARLSSON, E. Amino acid sequences of the two principal neurotoxins of Enhydrina schistosa venom. Biochemistry 11, 4633, 1972.
- 6431 GAIL, R. and RAGEAU, J. Introduction à l'étude des serpents marins (Ophidiens Hydrophiidae) en Nouvelle-Calédonie. Bull. Soc. Path. exot. 51, 448, 1958.
- 6432 GANTHAVORN, S. Toxicities of Thailand snake venoms and neutralization capacity of antivenin. Toxicon 7, 239, 1969.
- 6433 GAWADE, S.P. and BHIDE, M.B. Chromatographic separation and characterization of principle neurotoxic components from the venom of Enhydrina schistosa (common sea snake). Ind. J. med. Res. 67, 854, 1978; see also Indian Pharmacol. Soc. 4th Symp., p. 13, 1976 (Abst.).
- 6434 GAWADE, S.P. and BHIDE, M.B. Chromatographic separation of the venom of Lapemis curtus and pharmacological characterization of its toxic components. Preliminary studies. Int. Symp. Venoms Toxins, Bombay, India, P. 33, 1977 (Abst.).
- 6435 GAWADE, S.P. and BHIDE, M.B. Enzymatic activities of the venom of Enhydrina schistosa, common sea snake from the western coast of India. Bull. Haffkine Inst. 5, 48, 1977.
- 6436 GAWADE, S.P. and BHIDE, M.B. Chromatographic separation of venom of Enhydrina schistosa (common sea snake) and characterization of its principal toxic component. Ind. J. med. Res. 67, 854, 1978.
- 6437 GAWADE, S.P. and GAITONDÉ, B.B. Immunological studies on monovalent Enhydrina schistosa (common sea snake) antivenin. Toxicon 17 (Suppl. 1), 54, 1979 (Abst.).
- 6438 GAWADE, S.P., BUDUK, D.P. and GAITONDÉ, B.B. Preparation of monovalent common Indian sea snake (Enhydrina schistosa) antivenin. Indian J. med. Res. 72, 747, 1980.
- 6439 GEH, S.L. The pharmacological action of the Enhydrina schistosa (Daudin) venom. Master's thesis, Univ. Malaya, Kuala Lumpur, Malaysia, 1968.
- 6440 GEH, S.L. and CHAN, K.E. The prejunctional site of action of Enhydrina schistosa venom at the neuromuscular junction. Eur. J. Pharmacol. 21, 115, 1973.
- 6441 GEH, S.L. and TOH, H.T. Ultrastructural changes in skeletal muscle caused by a phospholipase A₂ fraction isolated from the venom of a sea snake, Enhydrina schistosa. Toxicon 16, 633, 1978.

- 6442 GESSNER, O. Tierische Gifte. Heffter's Handbuch Exp. Pharmakol. 6 (Suppl.), 1, 1937.
- 6443 GUL, S., KHARA, J.S. and SMITH, A.D. Hemolysis of washed human red cells by various snake venoms in the presence of albumin and Ca^{+2} . Toxicon 12, 311, 1974.
- 6444 HABERMEHL, G. Gift-Tiere und ihre Waffen. Eine Einführung für Biologen, Chemiker und Mediziner. Eine Leitfaden für Touristen. Springer-Verlag: Berlin, 1976.
- 6445 HALSTEAD, B.W. Animal phyla known to contain poisonous marine animals. In, Venoms. Buckley, E.E. and Porges, N. (eds.), A.A.A.S.: Washington, p. 9, 1956.
- 6446 HALSTEAD, B.W. Dangerous Marine Animals. Cornell Maritime Press: Cambridge, Md., 146p., 1959 (revised 1978).
- 6447 HALSTEAD, B.W. Venomous sea snakes. In, Poisonous and Venomous Marine Animals of the World, Vol. 3, Vertebrates. U.S. Govt. Print. Off.: Washington, p. 627, 1970.
- 6448 HALSTEAD, B.W. Poisonous and Venomous Marine Animals of the World. Rev. edit., Darwin Press: Princeton, N.J., p. 605, 1978.
- 6449 HALSTEAD, B.W. A study of the venomous fishes and sea snakes of Southeast Asia. U.S. Govt. Rept. (72), 100, 1972.
- 6450 HALSTEAD, B.W. and RUSSELL, F.E. Toxic marine organisms. In, Handbook of Biological Data. Spector, W.S. (ed.), F.A.S.E.B.: Washington, p. 424, 1956.
- 6451 HALSTEAD, B.W., CARSCALLEN, L.J. and RUSSELL, F.E. Animal toxins. Part III. Marine organisms. In, Biology Data Book. Altman, P.L. and Dittmer, D.S. (eds.), F.A.S.E.B.: Washington, p. 336, 1964.
- 6452 HALSTEAD, B.W., ENGEN, P. .. and TU, A.T. The venom and venom apparatus of the sea snake Lapemis hardwicki Gray. Zol. J. Linn. Soc. 63, 371, 1978.
- 6453 HARADA, I. [Laser Raman spectroscopy of protein molecules.] Tanpakushitsu Kakusan Koso 24, 1441, 1979.
- 6454 HARRIS, J.B., JOHNSON, M.A., and MAC DONELL, C.A. Muscle necrosis induced by some presynaptically active neurotoxins. In, Natural Toxins. Eaker, D. and Wadstrom, T. (eds.), Pergamon: Oxford, p. 569, 1980.
- 6455 HARVEY, A.L. and RODGER, I.W. Reversibility of neuromuscular blockade produced by toxins isolated from the venom of the sea snake Laticauda semifasciata. Toxicon 16, 219, 1978.
- 6456 HARVEY, A.L. and TAMIYA, N. Phospholipase A and neuromuscular blocking activities of components from the venom of the sea-snake, Laticauda semifasciata. Proc. 7th Intern. Cong. Pharmacol., p. 371, 1978 (Abst.).
- 6457 HARVEY, A.L. and TAMIYA, N. Role of phospholipase A activity in the neuromuscular paralysis produced by some components isolated from the venom of the seasnake, Laticauda semifasciata. Toxicon 18, 65, 1980.
- 6458 HARVEY, A.L., RODGER, I.W. and TAMIYA, N. Neuromuscular blocking activity of two fractions isolated from the venom of the

seesnake Laticauda semifasciata.
Toxicon 16, 43, 1978.

- 6459 HASHIMOTO, Y. [Marine Toxins.]
Univ. Tokyo Press: Tokyo, 1977.
- 6460 HASHIMOTO, Y. Marine Toxins and
Other Bioactive Marine Metabo-
lites. Jpn. Sci. Soc.: Tokyo,
369p., 1979.
- 6461 HASHIMOTO, Y., KONOSU, S. and
YASUMOTO, T. [Investigation on
toxic marine animals in the
Ryukyu and Amami Islands, IV. A
survey on turtle poisonings.]
Tech. Rept., Lab. Mar. Biochem.,
Fac. Agric., Univ. Tokyo, 1967.
- 6462 HAYASHI, K. and OTA, M. [Neuro-
toxins in snake venoms.] Protein
Nucleic Acid Enzyme (Tokyo) 20,
33, 1975.
- 6463 HEATWOLFE, H. Adaptations of
marine snakes. Am. Sci. 66, 594,
1978.
- 6464 HERRE, A.W.C.T. Notes on Philip-
pine sea snakes. Copeia 1, 7,
1942.
- 6465 HERRE, A.W.C.T. and RABOR, D.S.
Notes on Philippine sea snakes of
the genus Laticauda. Copeia 4,
282, 1949.
- 6466 HIDER, P.C. An alternativ view of
the structure of the reactive site
in the short-series snake venom
post synaptic neurotoxins. In,
Advances in Cytopharmacology,
Vol. 3, Neurotoxins: Tools in
Neurobiology. Ceccarelli, B. and
Clementi, F. (eds.), Raven Press:
N.Y., p. 149, 1979.
- 6467 HOGE, A.R. and ROMANO, S.A.
Neotropical pit vipers, sea
snakes, and coral snakes. In,
Venomous Animals and Their
Venoms, Vol. 2, Venomous Ver-
tebrates. Bucherl, W. and
Buckley, E. (eds.), Academic:
N.Y., 1971.
- 6468 HOMMA, M., OKONOGI, T. and
MISHIMA, S. Studies on sea snake
venom. (1) Biological toxicities of
venoms possessed by three
species of sea snakes captured in
coastal waters of Amami Oshima.
Gunma J. med. Sci. 13, 283, 1964.
- 6469 HOMMA, M., ABE, R., OKONOGI, T.,
KOSUGE, T. and MISHIMA, S.
[Studies on habu snake and erabu
sea snake venoms. Outlines of
biological toxicities of the two
snake venoms, and inhibitory
actions of tannic acid on them.]
Jpn. J. Bacteriol. 20, 281, 1965.
- 6470 HOPLEY, C.G. Curiosities and Won-
ders of Serpent Life. Griffith &
Farran: London, 592p., 1882.
- 6471 HORI, H. and TAMIYA, N. Prepara-
tion and activity of guanidinated
or acetylated erabutoxins.
Biochem. J. 153, 217, 1976.
- 6472 HSEU, T.H., JOU, E.D., WANG, C.
and YANG, C.C. Molecular evo-
lution of snake venom toxins. J.
molec. Evol. 10, 167, 1977.
- 6473 IBRAHIM, S.A. A study on sea-snake
venom phospholipase A. Toxicon
8, 221, 1970; see also Patologia
Polska 21, 1970.
- 6474 INAGAKI, F., MIYAZAWA, T., HORI,
H. and TAMIYA, N. Conforma-
tion of erabutoxins a and b in
aqueous solution as studied by
nuclear magnetic resonance and
circular dichroism. Eur. J. Bio-
chem. 89, 433, 1978.
- 6475 ISHIKAWA, Y., MENEZ, A., HORI,
H., YOSHIDA, H. and TAMIYA,
N. Structure of snake toxins and
their affinity to the acetylcholine
receptor of fish electric organ.
Toxicon 15, 477, 1977.

- 6476 IVANOV, CH.P. AND IVANOV, O.CH. The evolution and ancestors of toxic proteins. Toxicon 17, 205, 1979.
- 6477 KAISER, E. and MICHL, H. Die Biochemie der tierischen Gifte. F. Deuticke: Wien, p. 138, 1958.
- 6478 KAMENSKAIA, M.N. and SATYBALDINA, N.K. Effect of presynaptic neurotoxin Notechis II-5 from tiger snake venom on the motor nerve endings of mice. Biull. Eksp. Biol. Med. 88, 417, 1979.
- 6479 KAO, C.S., LIU, C.S. and BLACKWELL, R.Q. Presence of erabutoxins a and b in venom of the sea snake Laticauda semifasciata from Taiwan. Toxicon 11, 383, 1973.
- 6480 KARLSSON, E. Chemistry of some potent animal toxins. Experientia 29, 1319, 1973.
- 6481 KARLSSON, E., EAKER, D., FRYKLUND, L. and KADIN, S. Chromatographic separation of Enhydrina schistosa (common sea snake) venom and the characterization of two principal neurotoxins. Biochemistry 11, 4628, 1972.
- 6482 KARUNARATNE, K.E.S. and PANABOKKE, R.G. Sea snake poisoning—case report. J. trop. Med. Hyg. London 75, 91, 1972.
- 6483 KATO, E., KUBA, K. and KOKETSU, K. Effects of erabutoxins on neuromuscular transmission in frog skeletal muscles. J. Pharmacol. exp. Ther. 204, 446, 1978.
- 6484 KATO, E., KUBA, K. and KOKETSU, K. Effects of erabutoxins on the cholinergic receptors of bullfrog sympathetic ganglion cells. Brain Res. 191, 294, 1980.
- 6485 KELLAWAY, C.H. and HOLDEN, H.F. The peripheral action of the Australian snake venoms 1. The curari-like actions on frogs. Aust. J. exp. Biol. med. Sci. 10, 167, 1932.
- 6486 KELLAWAY, C.H., CHERRY, R.O. and WILLIAMS, F.E. The peripheral action of the Australian snake venoms 2. The curari-like action in mammals. Aust. J. exp. Biol. med. Sci. 10, 181, 1932.
- 6487 KERMORGANT. Serpents der mer et leur venin. Ann. Hyg. Méd. colon. 5, 431, 1902; see also Rev. Scientif. 18, 219, 1902.
- 6488 KIM, H.-S., ABE, T. and TAMIYA, N. Acetylation of the amino groups of Laticauda semifasciata. III, a sea snake venom component. J. Biochem. (Tokyo) 88, 889, 1980.
- 6489 KIMBALL, M.R., SATO, A., RICHARDSON, J.S., ROSEN, L.S. and LOW, B.W. Molecular conformation of erabutoxin b; atomic coordinates at 2.5 Å resolution. Biochem. Biophys. Res. Commun. 88, 950, 1979.
- 6490 KINGHORN, J.R. The Snakes of Australia. Halstead Press: Sydney, 197p., 1964.
- 6491 KINGHORN, J.R. and KELLAWAY, C.H. The Dangerous Snakes of the South-West Pacific Area. Victorian Railways Print. Works: Melbourne, 43p., 1943.
- 6492 KLAWE, W.L. Food of the black and yellow sea snake, Pelamis platurus from Ecuadorian coastal waters. Copeia (4), 712, 1964.
- 6493 KLEMMER, K. Liste der rezenten Giftschlangen Elapidae, Hydrophidae, Viperidae und Crotalidae. In, Die Giftschlangen der Erde. Behringwerke-Mitteilungen: Menz, p. 255, 1963.

- 6494 KLEMMER, K. Observations on the biology of sea snakes—Hydrophiidae—with remarks on their systematics. Mem. Inst. Butantan Simp. Internac. 33, 1966 (publ. 1968); see also Abst. Simp. Int. Venom. Animais, São Paulo, p. 29, 1966.
- 6495 KNOWLES, R. The mechanism and treatment of snake-bite in India. Trans. roy. Soc. trop. Med. Hyg. 15, 71, 1921.
- 6496 KOKA, K. [The venomous snakes in Southeast Asia.] The Snake 5, 77, 1973.
- 6497 KORNALIK, R. [Animal Toxins.] State Public Health: Prague, 288p., 1967.
- 6498 KRAUS, R. and WERNER, FR. Giftschlangen und die Serumbehandlung der Schlangenbisse. Gustav Fischer: Jena, p. 60, 1931.
- 6499 KREFFT, G. The Snakes of Australia; An Illustrated and Descriptive Catalogue of All the Known Species. Govt. Printer: Sydney, 1869.
- 6500 KREFFT, G. Descriptions of New Australian snakes. Proc. zool. Soc. London, p. 318, 1869.
- 6501 KROPACH, C. Pelamis platurus as a potential colonizer of the Caribbean sea. Bull. Biol. Soc. Wash. 2, 267, 1972.
- 6502 KUNTZ, R.E. Snakes of Taiwan. China Color Print. Co.: Taipei, 80p., 1963.
- 6503 KURAISHI, Y., MISU, Y., TAKAGI, H. and HAYASHI, K. Neuro-muscular blocking actions from Laticauda semifasciata, Naja haja and Naja haja atra—a comparative assay. Jpn. J. Pharmacol. 27, 464, 1977.
- 6504 LAUTERWEIN, J. and WUTHRICH, K. A possible structural basis for the different modes of action of neurotoxins and cardiotoxins from snake venoms. F.E.B.S. Lett. 93, 181, 1978.
- 6505 LEE, C.-Y. Chemistry and pharmacology of polypeptide toxins in snake venoms. Ann. Rev. Pharmacol. 12, 265, 1972.
- 6506 LEE, C.-Y. Classification of polypeptide toxins from elapid and sea snake venoms according to their pharmacological properties and chemical structures. J. Formosan med. Assoc. 71, 311, 1972.
- 6507 LEE, C.-Y. Recent advances in chemistry and pharmacology of snake toxins. In, Advances in Cytopharmacology, Vol. 3, Neurotoxins: Tools in Neurobiology. Ceccarelli, B. and Clementi, F. (eds.), Raven Press: N.Y., p. 1, 1979.
- 6508 LEE, C.-Y. (editor). Snake Venoms. Springer-Verlag: Berlin, 1130p., 1979.
- 6509 LEE, C.Y. and CHEN, Y.M. Species differences in reversibility of neuromuscular blockade by elapid and sea snake neurotoxins. In, Animal, Plant and Microbial Toxins. Ohsaka, A., Hayashi, K. and Sawai, Y. (eds.), Plenum: N.Y., vol. 2, 1976.
- 6510 LEE, C.-Y., CHANG, C.C. and CHEN, Y.M. Reversibility of neuromuscular blockade by neurotoxins from elapid and sea snake venoms. J. Formosan med. Assoc. 71, 344, 1972.
- 6511 LEVEY, H.A. Toxicity of the venom of the sea-snake, Laticauda colubrina, with observations on a Malay 'folk cure.' Toxicon 6, 269, 1969.

- 6512 LEVEY, H.H., SOH, N.M., LEONG, L.T. and KOH, K.H. Toxicity of the venom of the sea-snake, Laticauda colubrina (with observations on a Malay 'folk cure.' Malay nat. J. 21, 22, 1968.
- 6513 LIM, B.L. Venomous snakes of South-east Asia. S.E. Asian J. trop. Med. pub. Hlth. 2, 56, 1971.
- 6514 LIMPUS, C.J. The venom apparatus and venom yields of sub-tropical Queensland Hydrophiidae. In, Toxins. Animal, Plant and Microbial. Rosenberg, P. (ed.), Pergamon: Oxford, p. 39, 1978.
- 6515 LIMPUS, C.J. Toxicology of the venom of subtropical Queensland Hydrophiidae. In, Toxins. Animal, Plant and Microbial. Rosenberg, P. (ed.), Pergamon: Oxford, p. 341, 1978.
- 6516 LINAWEAVER, P.G. Toxic marine life. Milit. Med. 132, 437, 1967.
- 6517 LIU, C.S. and BLACKWELL, R.Q. Hydrophitoxin b from Hydrophis cyanocinctus venom. Toxicon 12, 543, 1974.
- 6518 LIU, C.-S., WANG, C.-L. and BLACKWELL, R.Q. Isolation and partial characterization of pelamitoxin a from Pelamis platurus venom. Toxicon 13, 31, 1975.
- 6519 LIU, C.-S., HUBER, G.S., LIN, C.-S. and BLACKWELL, R.Q. Fractionation of toxins from Hydrophis cyanocinctus venom and determination of amino acid composition and end groups of hydrophitoxin a. Toxicon 11, 73, 1973.
- 6520 LOVERIDGE, A. Reptiles of the Pacific World. Macmillan: N.Y., 239p., 1946.
- 6521 LOW, B.W. Structure studies of a sea snake neurotoxin "erabutoxin b." J. Biochem. (Tokyo) 79, 27, 1976.
- 6522 LOW, B.W. Three-dimensional structure of erabutoxin—prototype structure of the snake venom postsynaptic neurotoxins: consideration of structure and function; description of the reactive site. In, Advances in Cytoparmacology, Vol. 3, Neurotoxins: Tools in Neurobiology. Ceccarelli, B. and Clementi, F. (eds.), Raven Press: N.Y., p. 141, 1979; see also Lee, C.-Y. (ed.), Snake Venoms. Springer-Verlag: Berlin, p. 213, 1979.
- 6523 LOW, B.W., POTTER, R., JACKSON, R.B., TAMIYA, N. and SATO, S. X-ray crystallographic study of the erabutoxins and of a diiodo derivative. J. biol. Chem. 246, 4366, 1971.
- 6524 LOW, B.W., PRESTON, H.S., SATO, A. et al. Three-dimensional structure of erabutoxin b neurotoxic protein: inhibitor of acetylcholine receptor. Proc. Nat. Acad. Sci. U.S.A. 73, 2991, 1976.
- 6525 MACPHERSON, J. Snakes and snake bite. Sydney Univ. med. J. 18, 175, 1924.
- 6526 MACPHERSON, J. Freshwater snakes and sea snakes. Aust. Nurses J. 31, 71, 1933.
- 6527 MAEDA, N. and TAMIYA, N. The primary structure of the toxin Laticauda semifasciata III, a weak and reversibly acting neurotoxin from the venom of a sea snake, Laticauda semifasciata. Biochem. J. 141, 389, 1974.
- 6528 MAEDA, N. and TAMIYA, N. Isolation, properties and amino acid sequences of three neurotoxins from the venom of a sea snake,

- Aipysurus laevis. Biochem. J. 153, 79, 1976.
- 6529 MAEDA, N. and TAMIYA, N. Correction of partial amino acid sequence of erabutoxins. Biochem. J. 167, 289, 1977.
- 6530 MAEDA, N. and TAMIYA, N. Three neurotoxins from the venom of the sea snake Astrotia stokesii, including two long-chain neurotoxic proteins with amidated C-termini. Biochem. J. 175, 507, 1978.
- 6531 MAEDA, R.H., JR., PUFFER, H.W., BARBER, D.W., JR. and TAMIYA, N. Use of the denervated guinea pig diaphragm to elucidate the site of action of selected sea snake venoms. Proc. west. Pharmacol. Soc. 18, 335, 1975.
- 6532 MAEDA, N., TAMIYA, N., CHEN, Y.M. and LEE, C.Y. The isolation, properties, and amino acid sequence of Laticauda semifasciata III, a weak and reversible neurotoxin of a sea snake, Laticauda semifasciata, venom. In, Animal, Plant and Microbial Toxins. Ohsaka, A., Hayashi, K. and Sawai, Y. (eds.), Plenum: N.Y., vol. 2, p. 1, 1976.
- 6533 MAEDA, N., TAKAGI, K., TAMIYA, N., CHEN, Y.M. and LEE, C.-Y. The isolation of an easily reversible postsynaptic toxin from the venom of a sea snake, Laticauda semifasciata. Biochem. J. 141, 383, 1974.
- 6534 MAEGRAITH, B.G. Poisonous sea snakes (Hydrophiidae) and their venoms. Rapport ann. Institut Pasteur du Viet-Nam 1957, 30p., 1958.
- 6535 MARINKELIE, C.J. Accidents by venomous animals in Colombia. Indust. Med. Surg. 35, 988, 1966.
- 6536 MARSDEN, A.T. and REID, H.A. Pathology of sea-snake poisoning. Brit. med. J. 5, 1290, 1961.
- 6537 MAYS, C.E. Comparative morphology and histochemistry of the venom apparatus of some species of the proteroglyphous snakes Laticauda and Dendroaspis. Wassman J. Biol. 29, 81, 1971.
- 6538 MELDRUM, B.S. and THOMPSON, R.H.S. The action of snake venoms on the membrane permeability of brain, muscle and red blood cells. Guy's Hosp. Repts. 111, 87, 1962.
- 6539 MINTON, S.A., JR. Paraspecific protection by elapid and sea snake antivenins. Toxicon 5, 47, 1967.
- 6540 MINTON, S.A., JR. Snakebite. In, Cecil-Loeb Textbook of Medicine. 12th edit., Beeson, P.B. and MacDermott, W. (eds.), W.B. Saunders: Philadelphia, p. 420, 1967.
- 6541 MINTON, S.A., JR. Spines and stings and sea snakes. Consultant 17, 45, 1977.
- 6542 MINTON, S.A., JR. Serological relationships of some Philippine sea snakes. Copeia (1), 151, 1978.
- 6543 MINTON, S.A., JR. and HEATWOLFE, H. Snakes and the sea. Oceans 11, 53, 1973.
- 6544 MINTON, S.A., JR. and MINTON, M. Venomous Reptiles. Chas. Scribner's Sons: N.Y., 274p., 1969.
- 6545 M'KENZIE. An account of venomous sea snakes on the coast of Madras. Asiatic Res. 13, 329, 1820.
- 6546 MOHR, J.C., VAN DER MEER. Notiz über Seeschlangen. Misc. Zool. Sumatrana 23, 1, 1927.

- 6547 MURAI, S. and OGURA, Y. Pharmacological studies on erabutoxin. II. Effects on the circulatory and respiratory system of rabbits. Jpn. J. Pharmacol. 24 (Suppl.), 114, 1974 (Abst.).
- 6548 MURAI, S. and OGURA, Y. Effect of erabutoxin on respiration of rabbits. Jpn. J. Pharmacol. 27, 721, 1977.
- 6549 NAKANISHI, M., KOBAYASHI, M., TSUBOI, M., TAKASAKI, C. and TAMIYA, N. Electronic spectroscopy and deuteration kinetics of tyrosin and tryptophan residues: an application to the study of erabutoxin b. Biochemistry 19, 3204, 1980.
- 6550 NARAHASHI, T. Chemicals as tools in the study of excitable membranes. Physiol. Rev. 54, 813, 1974.
- 6551 NAUCK, E. Untersuchungen über das Gift einer Seeschlange (Hydrus platurus) des Pazifischen Ozeans. Arch. Schiffs- u. Tropenhyg. 3, 167, 1929.
- 6552 NG, R.H. and HOWARD, B.D. Mitochondria and sarcoplasmic reticulum as model targets for neurotoxic and myotoxic phospholipases A2. Proc. natn. Acad. Sci. U.S.A. 73, 1346, 1980.
- 6553 NISTRI, A. and ARENSON, M.S. Effect of erabutoxin b on acetylcholine release and root potentials of the frog spinal cord. Eur. J. Pharmacol. 47, 245, 1978.
- 6554 OGURA, Y. and MURAI, S. Pharmacological studies on erabutoxin. I. On the isolated phrenic nerve-diaphragm preparation of the rat. Jpn. J. Pharmacol. 24 (Suppl.), 114, 1974 (Abst.).
- 6555 OKONOGI, T. Venomous sea snake bite. The Snake 5, 156, 1973.
- 6556 OKONOGI, T., HATTORI, Z. and AMAGAI, E. Studies of immunity against the venom of Lapemis hardwickii. The Snake 4, 84, 1972.
- 6557 OKONOGI, K., HATTORI, Z. and IGARASHI, I. Experimental studies on immunization against sea-snake venom. Jpn. J. Bacteriol. 22, 173, 1971.
- 6558 OKONOGI, T., HATTORI, Z. and ISOARASHI, I. Immunological study of sea snake venom. Jpn. J. Bacteriol. 22, 173, 1967.
- 6559 OKONOGI, T., HATTORI, Z., WATANABE, M. and AMAGAI, E. Neutralization of seasnake venom with goat antivenin. The Snake 2, 18, 1970.
- 6560 OKONOGI, T., HATTORI, Z., AMAGAI, E., SAWAI, Y. and KAWAMURA, Y. Studies of immunity against the venom of Lapemis hardwickii with a special reference to a pilot production of therapeutic antivenin horse serum. The Snake 4, 84, 1972.
- 6561 OPPENHEIMER, C. and PINCUSSEN, L. Gift-Tiere. In, Tabulae Biologicae. Junk, W. (ed.), N.V. Van de Garde: Drukkerij, Zaltbommel, vol. 13, 272p., 1937.
- 6562 PARMENTIER, J. and CARPENTER, D. Blocking action of snake venom neurotoxins at receptor sites to putative central nervous system transmitters. In, Animal, Plant and Microbial Toxins. Ohsaka, A., Hayashi, K. and Sawai, Y. (eds.), Plenum: N.Y., vol. 2, p. 179, 1976.
- 6563 PAWLOWSKY, E.N. Gifttiere und ihre Giftigkeit. Gustav Fischer: Jena, 516p., 1927.

- 6564 PHISALIX, M. Animaux Venimeux et Venins. 2 vols., Masson & Cies: Paris, 1922.
- 6565 PICADO, C. Serpientes Venenosas de Costa Rica. Editorial Universidad de Costa Rica: San José, p. 107, 1975.
- 6566 PICKWELL, G.V. The venomous sea snakes. Fauna 4, 17, 1972.
- 6567 PICKWELL, G.V. Sea snakes of Vietnam and Southeast Asia. In, Handbook of Dangerous Animals for Field Personnel. Pickwell, G.V. and Evans, W.E. (eds.), Undersea Surveil. and Ocean Sci. Dept., U.S. Navy, p. 7, 1972.
- 6568 PICKWELL, G.V. Comparative immunology of sea snake venoms. In, Toxins. Animal, Plant and Microbial. Rosenberg, P. (ed.), Pergamon: Oxford, p. 105 (Abst.), 1978.
- 6569 PICKWELL, G.V. Experiences with sea snake antivenins and antitoxins. Toxicon 17 (Suppl. 1), 140, 1979 (Abst.)
- 6570 PICKWELL, G.V. Possible evolutionary affinities seen in sea snake venom-antivenom reactions. Toxicon 17 (Suppl. 1), 141, 1979 (Abst.)
- 6571 PICKWELL, G.V. and EVANS, W.E. (editors). Handbook of Dangerous Animals for Field Personnel. U.S. Navy, 1972.
- 6572 PICKWELL, G.V., VICK, J.A., SHIPMAN, W.H. and GRENNAN, M.M. Production toxicity and preliminary pharmacology of venom from the sea snake Pelamis platurus. In, Food-Drugs from the Sea. (Proc. 3rd Conf.), Worthen, L.R. (ed.), Mar. Tech. Soc.: Washington, p. 247, 1974.
- 6573 PIGULEVSKY, S.V. [Poisonous Animals. Toxicology of Vertebrates.] Print. House "Medicina": Leningrad, p. 31, 1966.
- 6574 POPE, C.H. The Poisonous Snakes of the New World. Clark & Fritts: N.Y., 47p., 1944.
- 6575 POPE, C.H. The Reptile World. A.A. Knopf: N.Y., 338p., 1956.
- 6576 PRESTON, H.S., KAY, J., SATO, A., LOW, B.W. and TAMIYA, N. Crystalline erabutoxin c. Toxicon 13, 273, 1975.
- 6577 PROSVIROV, E. [Poisonous and Dangerous Fish.] Kaliningrad Book Publ.: Leningrad, 79p., 1963.
- 6578 PUFFER, H.W., BARBER, D.W. and TAMIYA, N. Activity of selected sea snake venoms on isolated nerve-diaphragm preparation. Toxicon 13, 115, 1975.
- 6579 RAYMOND, M.L. and TU, A.T. Role of tyrosine in sea snake neurotoxin. Biochim. Biophys. Acta 285, 498, 1972.
- 6580 REID, H.A. Sea-snake bites. Br. med. J. (2), 73, 1956.
- 6581 REID, H.A. Three fatal cases of sea snakebite. In, Venoms. Buckley, E.E. and Porges, N. (eds.), A.A.A.S.: Washington, p. 367, 1956.
- 6582 REID, H.A. Sea-snake bite research. Trans. Roy. Soc. trop. Med. Hyg. 50, 517, 1956.
- 6583 REID, H.A. Antivenene reaction following accidental sea-snake bite. Br. med. J. (2), 26, 1957.
- 6584 REID, H.A. Snake-bites. Br. med. J. (2), 942, 1957.

- 6585 REID, H.A. Sea-snake bite and poisoning. Practitioner 183, 530, 1959.
- 6586 REID, H.A. Diagnosis, prognosis and treatment of sea-snake bite. Lancet (2), 399, 1961.
- 6587 REID, H.A. Myoglobinuria and sea-snake bite poisoning. Br. med. J. (1), 1284, 1961.
- 6588 REID, H.A. Sea-snake antivenene: successful trial. Br. med. J. (2), 576, 1962.
- 6589 REID, H.A. Snakebite in Malaya. In, Venomous and Poisonous Animals and Noxious Plants of the Pacific Region. Keegan, H.L. and MacFarlane, W.V. (eds.), Macmillan: N.Y., p. 355, 1963.
- 6590 REID, H.A. Clinical aspects of animal toxins. In, Toxins of Animal and Plant Origin. DeVries, A. and Kochva, E. (eds.), Gordon & Breach: N.Y., vol. III, p. 957, 1973.
- 6591 REID, H.A. Epidemiology and clinical aspects of sea snake bites. In, The Biology of Sea Snakes. Dunson, W.A. (ed.), Univ. Park Press: Baltimore, Md., p. 417, 1975.
- 6592 REID, H.A. Antivenom in sea-snake bite poisoning. Lancet (1), 622, 1975.
- 6593 REID, H.A. Epidemiology of sea-snake bites. J. trop. Med. Hyg. 78, 106, 1975.
- 6594 REID, H.A. and LIM, K.J. Sea-snake bite, a survey of fishing villages in northwest Malaya. Br. med. J. (2), 1266, 1957.
- 6595 ROCH-ARVEILLER, M. Action neuromusculaire du venin de serpent marin "erabu" Laticauda semifasciata et des erabutoxines a et b. Toxicon 10, 125, 1972.
- 6596 ROGERS, L. Demonstration of enhydrina poisoning. (Proc. Physiol. Soc.) J. Physiol. 30, IV, 1903.
- 6597 ROGERS, L. On the physiological action of the poison of the Hydrophidae. Proc. Roy. Soc. 71, 481, 1903.
- 6598 ROGERS, L. On the physiological action of the poison of the Hydrophidae. Part II. Action on the circulatory, respiratory and nervous systems. Proc. Roy. Soc. 72, 305, 1904.
- 6599 ROMER, J.D. Notes on sea snakes (Hydrophiidae) occurring in or near Hong Kong territorial waters. Hong Kong Univ. Fish. J., p.34, 1954.
- 6600 ROMER, J.D. Illustrated Guide to the Venomous Snakes of Hong Kong. J.R. Lee: Hong Kong, 1972.
- 6601 ROSANELLI, J.D. Sea-snake poisoning and myoglobinuria. Br. med. J. (2), 49, 1961.
- 6602 ROSENBERG, H.I. Histology, histochemistry, and emptying mechanism of the venom glands of some elapid snakes. J. Morphol. 123, 133, 1967.
- 6603 ROSENBERG, P. Effects of venoms on the squid giant axon. Toxicon 3, 125, 1965.
- 6604 ROSENBERG, P. Common names index. Poisonous animals, plants and bacteria. Toxicon 18, 11, 1980.
- 6605 RUSSELL, F.E. Venomous and poisonous marine animals and their toxins. First Inter-Amer. Naval Res. Conf., San Juan, Puerto Rico, 37p., July, 1965.
- 6606 RUSSELL, F.E. Venomous snakes of Southeast Asia. Film H-A-PMB-

- 513 (with text), U.S. Navy Med. School, Bethesda, 1966.
- 6607 RUSSELL, F.E. Pharmacology of animal venoms. Clin. Pharm. Ther. **8**, 849, 1967.
- 6608 RUSSELL, F.E. Terrestrial and marine venomous snakes. In, Forensic Medicine. Tedeschi, C.G., Eckert, W.G. and Tedeschi, L.G. (eds.), W.B. Saunders: Philadelphia, vol. 3, p. 1437, 1977.
- 6609 RUSSELL, F.E. Snake venom poisoning. In, Practice of Pediatrics. Kelly, V.C. (ed.), Harper & Row: Hagerstown, Md., vol. 1, p. 1, 1979.
- 6610 RUSSELL, F.E. Snake Venom Poisoning. Lippincott: Philadelphia, 362p., 1980.
- 6611 RUSSELL, F.E. and BRODIE, A.F. Venoms of reptiles. In, Chemical Zoology. Florkin, M. and Scheer, B.T. (eds.), Academic: N.Y., Vol. IX, p. 449, 1974.
- 6612 RUSSELL, F.E. and LAURITZEN, L. Antivenins. Trans. Roy. Soc. trop. med. Hyg. **60**, 797, 1966.
- 6613 RUSSELL, F.E. and SAUNDERS, P.R. (editors). Animal Toxins. Pergamon: N.Y., 1967.
- 6614 RUSSELL, F.E. and SCHARFFENBERG, R.S. Bibliography of Snake Venoms and Venomous Snakes. George Rice & Sons: Los Angeles, 220p., 1964.
- 6615 RUSSELL, F.E., GANS, C. and MINTON, S. Poisonous snakes. Clin. Med. **85**, (1,2), 13, 1978.
- 6616 SATO, S. Structure of neurotoxins of sea snakes. Protein Nucleic Acid Enzyme (Tokyo) **16**, 86, 1971.
- 6617 SATO, S. and TAMIYA, N. Iodination of erabutoxin b: diiodohistidine formation. J. Biochem. **68**, 867, 1970.
- 6618 SATO, S. and TAMIYA, N. The amino acid sequences of erabutoxins, neurotoxic proteins of sea-snake (*Laticauda semifasciata*) venom. Biochem. J. **122**, 433, 1971.
- 6619 SATO, S., ABE, T. and TAMIYA, N. Binding of iodinated erabutoxin b, a sea snake toxin, to the endplates of the mouse diaphragm. Toxicon **8**, 313, 1970.
- 6620 SATO, S., OGAHARA, H. and TAMIYA, N. Immunochemistry of erabutoxins. Toxicon **10**, 239, 1972.
- 6621 SATO, S., YOSHIDA, H., ABE, H. and TAMIYA, N. Properties and biosynthesis of a neurotoxic protein of the venoms of sea snakes *Laticauda laticaudata* and *Laticauda colubrina*. Biochem. J. **115**, 85, 1969.
- 6622 SAWAI, Y., MISHIMA, S., TSENG, C.-S. et al. A survey on seasnakes and their bites in Southeast Asia with special reference to Malaysia, Thailand and Hong Kong. The Snake **9**, 48, 1978.
- 6623 SAWAI, Y., KAWAMURA, Y., OKONOGI, T. et al. Study on production of polyvalent antivenin against seasnake venoms. The Snake **9**, 63, 1978.
- 6624 SCHLEGEL, H. Reptilia. In, Siebold's Fauna Japonica. Leiden, p. 89, 1833.
- 6625 SCHMIDT, K.P. and INGER, R.F. Living Reptiles of the World. Doubleday: Garden City, N.Y., 287p., 1957.
- 6626 SCHMIDT, M.E., ABDELBAKI, Y.Z. and TU, A.T. Nephrotoxic action of rattlesnake and sea snake

venoms: an electron-microscope study. J. Path. 118, 75, 1976.

6627 SCHWAB, M.C. and PUFFER, H.W. A study of the site of blockade of the vertebrate neuromuscular junction by erabutoxin a. Fed. Proc. 35, 800, 1976.

6628 SCHWAB, M.C. and PUFFER, H.W. Preliminary electrophysiology of erabutoxin-a. In, Toxins. Animal, Plant and Microbiol. Rosenberg, P. (ed.), Pergamon: Oxford, p. 393, 1978.

6629 SEARLE, J.E., FULLERTON, W.W. and LOW, B.W. X-ray crystallographic study of laticotoxin a. J. biol. Chem. 248, 6057, 1973.

6630 SERVENTY, V. and RAYMOND, R. Marine reptiles. Aust. Wildl. Heritage 1, 91, 1973.

6631 SERVENTY, V. and RAYMOND, R. Venomous snakes. Aust. Wildl. Heritage 3, 1377, 1974.

6632 SETO, A., SATO, S. and TAMIYA, N. The properties and modification of tryptophan in a sea snake toxin, erabutoxin a. Biochim. Biophys. Acta 214, 483, 1970.

6633 SHEEN, C.F. and TU, T.C. Effect of the venom of a sea snake, Laticauda colubrina (Schneider) on the capillary permeability in rabbits. J. Formosan med. Assoc. 62, 87, 1963.

6634 SHIPMAN, W.H. and PICKWELL, G.V. Venom of the yellow-bellied snake (Pelamis platurus): some physical and chemical properties. Toxicon 11, 375, 1973.

6635 SITPRIJA, V., SRIBHIBHADH, R. and BENYAJATI, C. Hemodialysis in poisoning by sea-snake venom. Br. med. J. (3), 218, 1971.

6636 SITPRIJA, V., SRIBHIBHADH, R., BENYAJATI, C. and TANGCHAI, P. Acute renal failure in snake-bite. In, Toxins of Animal and Plant Origin. DeVries, A. and Kochva, E. (eds.), Gordon & Breach: N.Y., vol. 3, p. 1013, 1973.

6637 SLEVIN, J.R. The Templeton Crocker expedition to western Polynesian and Melanesian Islands, 1933. Notes on the reptiles and amphibians, with the description of a new species of seasnake. Proc. Calif. Acad. Sci. 21, 183, 1934.

6638 SMITH, M. Monograph of the Sea-Snakes (Hydrophiidae). Taylor & Francis: London, 130p., 1926; reprinted by Wheldon & Wesley and Verlag J. Cramer: N.Y., 133p., 1964.

6639 SMITH, M. The sea snakes (Hydrophiidae). Dana Report No. 3, Carlsberg Foundation, 1935.

6640 SMITH, M. The Fauna of British India, Ceylon and Burma, Including the Whole of the Indo-Chinese Sub-Region, Vol. 3, Serpentes. Taylor & Francis: London, p. 380, 1943.

6641 SMITH, T. On the venom apparatus of sea snakes. Phil. Trans. roy. Soc. London 108, 471, 1818.

6642 SOUTHCOTT, R.V. The neurologic effects of noxious marine creatures. In, Contemporary Neurology Series. Hornabrook, R.W. (ed.), F.A. Davis: Philadelphia, Vol. 12, p. 165, 1975.

6643 SOUTHCOTT, R.V. Australian venomous and poisonous fishes. Clin. Toxicol. 10, 291, 1977.

6644 SOUTHCOTT, R.V. Marine envenomation and intoxication in man. In, Neurotoxins. Fundamental and

- Clinical Advances. Chubb, I.W. and Geffen, L.D. (eds.), Adelaide Univ. Union Press: Adelaide, p. 75, 1978.
- 645 SOUTHCOTT, R.V. Marine toxins. In, Handbook of Clinical Neurology. Vinken, P.J. and Bruyn G.W. (eds.), North-Holland: Amsterdam, vol. 37, part 2, p. 27, 1979.
- 646 STORR, G.M. Dangerous Snakes of Western Australia. Vanguard: Perth, 1979.
- 647 STRYDON, D.J. Snake venom toxins. Structure-function relationships and phylogenetics. Comp. Biochem. Physiol. 44B, 269, 1973.
- 648 TAKAHASHI, H., IWANAGA, S. and SUZUKI, T. Distribution of proteinase inhibitors in snake venom. Toxicon 12, 193, 1974.
- 649 TAKAHASHI, S. Notes on Hydridae of Kôôtsho (Botel Tobago Island). Trans. nat. Hist. Soc. Formosa 25, 142, 1935.
- 650 TAKAMATSU, T., HARADA, I. and HAYASHI, K. Raman spectra of some snake venom components. Biochim. Biophys. Acta 622, 189, 1980.
- 651 TAKAMIZAWA, T. Effects of erabutoxin B on the membrane properties of frog sartorius muscle cells. Tohoku J. exper. Med. 101, 339, 1970.
- 652 TAKEDA, M., YOSHIDA, H. and TAMIYA, N. Biosynthesis of erabutoxins in the sea snake, Laticauda semifasciata. Toxicon 12, 633, 1974; see also In, Animal, Plant and Microbial Toxins. Ohsaka, A., Hayashi, K. and Sawai, Y. (eds.), Plenum: N.Y., p. 1, 1976.
- 6653 TALIZIN, F.F. [Poisonous Animals of the Land and Sea.] Moscow, p. 90, 1970.
- 6654 TAMIYA, N. Contents of toxic components in Laticauda semifasciata venom. J. Formosan med. Assoc. 71, 389, 1972.
- 6655 TAMIYA, N. Studies on sea snake toxins: the structure of erabutoxin c and the contents of erabutoxins a, b and c in the venom of Laticauda semifasciata. In, Animal and Plant Toxins/Tier-und Pflanzengifte. Kaiser, E. (ed.), Wilhelm Goldmann: Munich, p. 41, 1973; see also Toxicon 10, 535, 1972 (Abst.).
- 6656 TAMIYA, N. Erabutoxins a, b and c in sea snake Laticauda semifasciata venom. Toxicon 11, 95, 1973.
- 6657 TAMIYA, N. Toxic proteins of sea snake venoms. Kobunshi 23, 728, 1974.
- 6658 TAMIYA, N. Crystalline erabutoxin c. Toxicon 13, 273, 1975.
- 6659 TAMIYA, N. Sea snake venoms and toxins. In, The Biology of Sea Snakes. Dunson, W.A. (ed.), Univ. Park Press: Baltimore, Md., p. 385, 1975.
- 6660 TAMIYA, N. [Neurotoxic proteins: their binding to the nicotinic acetylcholine receptor.] Tanpakushitsu Kakusan Koso 22, 554, 1977.
- 6661 TAMIYA, N. and ABE, H. The isolation, properties and amino acid sequence of erabutoxin c, a minor neurotoxic component of the venom of a sea snake Laticauda semifasciata. Biochem. J. 130, 547, 1972.
- 6662 TAMIYA, N. and ABE, T. Antigenicity determining amino acid residues of erabutoxin b. In, Natural

- Toxins. Eaker, D. and Wadström, T. (eds.), Pergamon: Oxford, p. 91, 1980; see also Toxicon 17 (Suppl. 1), 186, 1979 (Abst.).
- 6663 TAMIYA, N. and ARAI, H. Studies on seasnake venoms: crystallization of erabutoxins a and b from Laticauda semifasciata venom. Biochem. J. 99, 624, 1966.
- 6664 TAMIYA, N. and MAEDA, N. Chemical taxonomy of snake neurotoxins. In, Evolution of Protein Molecules. Matsubara, H. and Yamanaka, T. (eds.), Jpn. Sci. Soc. Press: Tokyo, p. 297, 1978.
- 6665 TAMIYA, N. and MAEDA, N. Neurotoxins of Australian sea snakes. In, Neurotoxins. Fundamental and Clinical Advances. Chubb, I.W. and Geffen, L.D. (eds.), Adelaide Univ. Union Press: Adelaide, p. 95, 1979.
- 6666 TAMIYA, N. and PUFFER, H. Lethality of sea snake venoms. Toxicon 12, 85, 1974.
- 6667 TAMIYA, N. and SATO, S. Structure and function of crystalline toxins from Laticaudinae. 7th Intern. Cong. Biochem., Tokyo, p. 497, 1966 (Abst.).
- 6668 TAMIYA, N. and TAKASAKI, C. Detection of erabutoxins in the venom of sea snake Laticauda semifasciata from the Philippines. Biochim. Biophys. Acta 532, 199, 1978.
- 6669 TAMIYA, N., ARAI, H. and SATO, S. Crystalline sea snake toxins. Toxicon 4, 298, 1967 (Abst.).
- 6670 TAMIYA, N., ARAI, H. and SATO, S. Studies on sea snake venoms: crystallization of erabutoxins "a" and "b" from Laticauda semifasciata venom, and of laticrotoxin "a" from Laticauda laticaudata venom. In, Animal Toxins. Russell, F.E. and Saunders, P.R. (eds.), Pergamon: Oxford, p. 249, 1967.
- 6671 TAMIYA, N., SATO, S. and SETO, A. Structure and action of the sea snake neurotoxins, erabutoxins a and b. In, Toxins of Animal and Plant Origin. DeVries, A. and Kochva, E. (eds.), Gordon & Breach: N.Y., p. 237, 1971.
- 6672 TAMIYA, N., ISHIKAWA, Y., MENEZ, A., HORI, H. and YOSHIDA, A. The structure of snake neurotoxins and their affinity for the acetylcholine receptor. In, Toxins. Animal, Plant and Microbial. Rosenberg, P. (ed.), Pergamon: Oxford, p. 243, 1978.
- 6673 TAMIYA, N., SATO, S., ENDO, Y., SETO, A. and YOSHIDA, H. Structure and action of sea snake toxins. 2nd Intern. Symp. Animal Toxins, Tel Aviv, p. 89, 1970.
- 6674 TAMIYA, N., TAKASAKI, C., SATO, A. et al. Structure and function of erabutoxins and related neurotoxins from sea snakes and cobras. Biochem. Soc. Trans. 8, 753, 1980.
- 6675 TASCHENBERG, O. Die Giftigen Tiere. Ferdinand Enke: Stuttgart, 1909.
- 6676 TAUB, A.M. Antivenins available for the treatment of snake bite. Toxicon 2, 71, 1964.
- 6677 TAUB, A.M. and ELLIOTT, W.B. Some effects of snake venoms on mitochondria. Toxicon 2, 87, 1964.
- 6678 TAYLOR, E.H. Early records of the sea snake Pelamis platurus in Latin America. Copeia (2), 124, 1953.
- 6679 TAYLOR, E.H. The serpents of Thailand and adjacent waters.

- Univ. Kansas Sci. Bull. 35, 980, 1965.
- 6680 THIERY, C., NABEDRYK-VIALA, E., MENEZ, A., FROMAGEOT, P. and THIERY, J.M. Hydrogen exchange kinetics and dynamic structure of erabutoxin b from LH NMR and infrared spectrometry. Biochem. Biophys. res. Commun. 93, 839, 1980.
- 6681 TOH, H.T., GEH, S.L. and CHAN, K.E. Ultrastructural changes in neuromuscular junction of guinea pig caused by chronic injection of crude Enhydrina schistosa venom. Malaysian J. Sci. 3(A), 39, 1975.
- 6682 TOOM, P.M. Isolation and characterization of the toxic component of Enhydrina schistosa (common sea snake) venom. J. biol. Chem. 246, 1012, 1971.
- 6683 TOOM, P.M., SOLIE, T.N. and TU, A.T. Characterization of a nonproteolytic arginine ester hydrolyzing enzyme from snake venom. J. biol. Chem. 245, 2549, 1970.
- 6684 TOOM, P.M., SQUIRE, P.G. and TU, A.T. Characterization of the enzymatic and biological activities of snake venoms by isoelectric focusing. Biochim. Biophys. Acta 181, 339, 1969.
- 6685 TRISHNANANDA, M. Incidence, clinical manifestation and general management of snake bites. Southeast Asia J. trop. Med. pub. Hlth. 10, 248, 1979.
- 6686 TSERNOGLOU, D. and PETSKO, G.A. The crystal structure of a post-synaptic neurotoxin from sea snake at 2.2 Å resolution. F.E.B.S. Lett. 68, 1, 1976.
- 6687 TSERNOGLOU, D. and PETSKO, G.A. Structure-function relationships in snake venom neurotoxins. Fed. Proc. 36, 802, 1977 (Abst.).
- 6688 TSERNOGLOU, D. and PETSKO, G.A. Three-dimensional structure of neurotoxin a from venom of the Philippine sea snake. Proc. natn. Acad. Sci. U.S.A. 74, 971, 1977.
- 6689 TSERNOGLOU, D., PETSKO, G.A. and HUDSON, R.A. Structure and function of snake venom curarimimetic neurotoxins. Molec. Pharmacol. 14, 710, 1978.
- 6690 TU, T. Toxicological studies on the venom of a sea snake, Laticauda semifasciata (Reinwardt) in Formosan waters. First report. J. Formosan med. Assoc. 56, 609, 1957.
- 6691 TU, T. Toxicological studies on the venom of a sea snake, Laticauda semifasciata (Reinwardt) in Formosan waters. Third report. J. Formosan med. Assoc. 57, 85T, 1958.
- 6692 TU, T. Toxicological studies on the venom of a sea snake, Laticauda semifasciata (Reinwardt) in Formosan waters. J. Formosan med. Assoc. 58, 182, 1959.
- 6693 TU, T. Toxicological studies on the venom of a sea snake, Laticauda semifasciata (Reinwardt) in Formosan waters. Fifth report. J. Formosan med. Assoc. 58, 740, 1959.
- 6694 TU, T. Toxicological studies on the venom of a sea snake, Laticauda semifasciata (Reinwardt). Biochem. Pharmacol. 8, 75, 1961 (Abst.).
- 6695 TU, T. Toxicological studies on the venom of a sea snake, Laticauda laticaudata affinis (Anderson). Second report. J. Formosan med. Assoc. 62, 87, 1963.

- 6696 TU, T. Toxicological studies on the venom of the sea snake Laticauda laticaudata affinis. In, Animal Toxins. Russell, F.E. and Saunders, P.R. (eds.), Pergamon: Oxford, p. 245, 1967; see also Toxicon 4, 296, 1967 (Abst.).
- 6697 TU, A.T. Neurotoxins of animal venoms: snakes. Ann. Rev. Biochem. 42, 235, 1973.
- 6698 TU, A.T. Sea snake venoms and neurotoxins. J. agric. food Chem. 22, 36, 1974.
- 6699 TU, A.T. Sea snake investigation in the Gulf of Thailand. J. Herpetol. 8, 201, 1974.
- 6700 TU, A.T. Investigation of the sea snake, Pelamis platurus (Reptilia, Serpentes, Hydrophiidae), on the Pacific Coast of Costa Rica, Central America. J. Herpetol. 10, 13, 1976.
- 6701 TU, A.T. and GANTHAVORN, S. Immunological properties and neutralization of seasnake venoms from Southeast Asia. Am. J. trop. Med. Hyg. 18, 151, 1969.
- 6702 TU, A.T. and HOMMA, M. Toxicological study of snake venom from Costa Rica. Toxicol. appl. Pharmacol. 16, 73, 1970.
- 6703 TU, A.T. and HONG, B.S. Purification and chemical studies of a toxin from the venom of Lapemis hardwickii (Hardwick's sea snake). J. biol. Chem. 246, 2772, 1971.
- 6704 TU, A.T. and PASSEY, R.B. Isolation and characterization of phospholipase A from Laticauda semifasciata venom. 2nd Intern. Symp. Animal Toxins, Tel Aviv, p. 91, 1970 (Abst.).
- 6705 TU, A.T. and PASSEY, R.B. Phospholipase A from sea snake venom and its biological properties. In, Toxins of Animal and Plant Origin. DeVries, A. and Kochva, E. (eds.), Gordon & Breach: N.Y., p. 419, 1971.
- 6706 TU, A.T. and SALAFRANCA, E.S. Immunological properties and neutralization of sea snake venoms (II). Am. J. trop. Med. Hyg. 23, 135, 1974.
- 6707 TU, A.T. and TOOM, P.M. The presence of L-leucyl- β -naphthylamide hydrolyzing enzyme in snake venoms. Experientia 23, 439, 1967.
- 6708 TU, A.T. and TOOM, P.M. Isolation and characterization of the toxic component of the venom of Enhydrina schistosa (common sea snake) venom. J. biol. Chem. 246, 1012, 1971.
- 6709 TU, A.T. and TU, T. Sea snakes from Southeast Asia and the Far East and their venoms. In, Poisonous and Venomous Marine Animals of the World, Vol. 3, Vertebrates. (Addenda—Reptilia). Halstead, B.W. (ed.), U.S. Govt. Print. Off.: Washington, p. 885, 1970.
- 6710 TU, A.T., HONG, B.-S. and SOLIE, T.N. Characterization and chemical modifications of toxins isolated from the venoms of the sea snake, Laticauda semifasciata, from Philippines. Biochemistry 10, 1295, 1971.
- 6711 TU, A.T., JO, B.H. and YU, N.-T. Laser Raman spectroscopy of snake venom neurotoxins; conformation. Intern. J. Peptide Protein Res. 8, 337, 1976.
- 6712 TU, A.T., LIN, T.S. and BIEBER, A.L. Purification and chemical characterization of the major neurotoxin from the venom of Pelamis

- platurus. Biochemistry 14, 3408, 1975.
- 6713 TU, A.T., LIN, T.S. and YU, N.-T. Laser Raman studies on sea snake neurotoxins. Fed. Proc. 33, 1564, 1974 (Abst.).
- 6714 TU, A.T., PASSEY, R.B. and TOOM, P.M. Isolation and characterization of phospholipase A from sea snake, Laticauda semifasciata venom. Arch. Biochem. Biophys. 140, 96, 1970.
- 6715 TU, A.T., PASSEY, R.B. and TU, T. Proteolytic enzyme activities of snake venoms. Toxicon 4, 59, 1966.
- 6716 TU, T., TU, A.T. and LIN, T.S. Some pharmacological properties of the venom, venom fractions and pure toxin of the yellow-bellied sea snake Pelamis platurus. J. Pharm. Pharmacol. 28, 139, 1976.
- 6717 TU, A.T., HONG, B.S., TOOM, P.M. and TSERNOGLOU, D. Chemical study of sea snake venom toxins from three species in Southeast Asia. In, Animal and Plant Toxins/Tier und Pflanzengifte. Kaiser, E. (ed.), W. Goldmann: Munich, p. 45, 1973; see also Toxicon 10, 535, 1972 (Abst.).
- 6718 TU, T.C., LIN, M.J., YANG, H.M., LIN, H.J. and CHEN, C.N. Toxicological studies on the venom of a sea snake, Laticauda colubrina (Schneider). First report. J. Formosan med. Assoc. 61, 1296, 1962.
- 6719 UWATOKO-SETOGUCHI, Y. Studies on sea snake venom. (VI). Pharmacological properties of Laticauda semifasciata venom and purification of toxic components, acid phosphomonoesterase and phospholipase A in the venom. Acta Med. Univ. Kagoshima 12, 73, 1970.
- 6720 UWATOKO-SETOGUCHI, Y., MINAMISHIMA, Y. and OBO, F. Studies on sea snake venom IV. Purification of phospholipase A in Laticauda semifasciata venom. Acta Med. Univ. Kagoshima 10, 219, 1968.
- 6721 UWATOKO-SETOGUCHI, Y. and OBO, F. Studies on sea snake venom. V. Some properties of phospholipase A in Laticauda semifasciata venom. Acta Med. Univ. Kagoshima 11, 139, 1969.
- 6722 UWATOKO-SETOGUCHI, Y., NOMURA, Y. and KOJIMA, K. Investigation of sea snake venom. (II). Crystallization of toxic compounds in sea snake (Laticauda semifasciata) venom. Acta Med. Univ. Kagoshima 8, 151, 1966.
- 6723 UWATOKO-SETOGUCHI, Y., NOMURA, Y., KOJIMA, K. and OBO, F. Investigation of sea snake venom. (I). Fractionation of sea snake (Laticauda semifasciata) venom. Acta Med. Univ. Kagoshima 8, 141, 1966.
- 6724 VAN SIEGENBEEK HEUKELOM, A. Dodelijke vergiftiging na het eten van een schildpad, gevangen bij Billiton. Geneesk. Tijdschr. Ned.-Ind. 76, 1945, 1936.
- 6725 VERRILL, A.H. Moeurs Étranges des Reptiles. Payot: Paris, p. 38, 1943.
- 6726 VICK, J.A. Plate XXXII—Venomous sea snakes. (Summary of toxicity studies). In, Poisonous and Venomous Marine Animals of the World, Vol. 3, Vertebrates. (Addenda—Plates), Halstead, B.W. (ed.), U.S. Govt. Print. Off.: Washington, D.C., p. 974, 1970.
- 6727 VICK, J.A., VON BREDOW, J., GRENNAN, M.M. and PICKWELL, G.V. Sea snake antivenin and

- experimental envenomation therapy. In, The Biology of Sea Snakes. Dunson, W.A. (ed.), Univ. Park Press: Baltimore, Md., p. 463, 1975.
- 6728 VILLA, J. Las Serpientes Venenosas de Nicaragua. Novedades: Managua, p. 27, 1962.
- 6729 VIQUEZ, S.C. Animales venenosos de Costa Rica. San José, Costa Rica, 313p., 1935; (2nd edit., 1940).
- 6730 VOLSØE, H. The sea snakes of the Iranian Gulf and the Gulf of Oman. Danish Sci. Invest. Iran, Pt. 1, 9, 1939.
- 6731 WALKER, M.J.A. and YEOH, P.N. The in vitro neuromuscular blocking properties of sea snake (Enhydrina schistosa) venom. Europ. J. Pharmacol. 28, 199, 1974.
- 6732 WANG, C.L., LIU, C.S., HUNG, Y.O. and BLACKWELL, R.Q. Amino acid sequence of pelamitoxin a, the main neurotoxin of the sea snake, Pelamis platurus. Toxicon 14, 459, 1976.
- 6733 WERLER, J.E. and KEEGAN, H.L. Venomous snakes of the Pacific area. In, Venomous and Poisonous Animals and Noxious Plants of the Pacific Region. Keegan, H.L. and Macfarlane, W.V. (eds.), Pergamon: Oxford, p. 219, 1963.
- 6734 WEST, G.S. On the buccal glands and teeth of certain poisonous snakes. Proc. zool. Soc. London 2, 407, 1969.
- 6735 WHITLEY, G. Dangerous Australian fishes. Proc. First Intern. Convention Life Saving Techniques. Part 3, Sci. Sect., Bull. Post Grad. Comm. Med., Univ. Sydney, Australia, 131p., 1963.
- 6736 WORRELL, E. Dangerous Snakes of Australia and New Guinea. 4th edit., Halstead Press: Sydney, 1961.
- 6737 WORRELL, E. Reptiles of Australia. Crocodiles - Turtles - Tortoises - Lizards - Snakes. 2nd edit., Angus & Robertson: Sydney, 207p., 1970.
- 6738 YANG, C.C. Chemistry and evolution of toxins in snake venoms. Toxicon 12, 1, 1974.
- 6739 YANG, T.Y. and LEE, C.-Y. Pharmacological studies on the venom of a sea snake, Hydrophis cyanocinctus. In, Toxins. Animal, Plant and Microbia. Rosenberg, P. (ed.), Pergamon: Oxford, p. 415, 1978.
- 6740 YANG, T.Y., LIN, M.J. and TU, T.C. Toxicological studies on the venom of a sea snake, Laticauda colubrida (Schneider). Third report. J. Formosan med. Assoc. 62, 87, 1963.
- 6741 YEOH, P.N. and WALKER, M.J.A. Effect of a sea snake (Enhydrina schistosa) venom on the ganglionic nicotinic actions of acetylcholine. J. Pharm. Pharmacol. 26, 441, 1974.
- 6742 YOSHIDA, H., KUDO, T., SHINKAL, W. and TAMIYA, N. Phospholipase A of sea snake Laticauda semifasciata venom. Isolation and properties of novel forms lacking tryptophan. J. Biochem. Tokyo 85, 379, 1979.
- 6743 YU, N.T., LIN, T.S. and TU, A.T. Laser Raman scattering of neurotoxins isolated from the venoms of sea snakes Lapemis hardwickii and Enhydrina schistosa. J. biol. Chem. 250, 1782, 1975.
- 6744 ZLOTKIN, E. Chemistry of animal venoms. Experientia 29, 1453, 1973.

CHAPTER XII

MARINE MAMMALS

Citations in this chapter relate to the poisonous marine mammals, chiefly the seals and polar bears. As can be seen, there have been few original reports on the toxicity of marine mammalian tissues, which in most cases is due to hypervitaminosis A. The classic work on the subject is that by Rodahl (reference 6769).

- 6745 ABS, O. Poisoning by the sea. Ernahrungs forschung. 3, 448, 1958.
- 6746 BAGNIS, R., BERGLUND, F., ELIAS, P.S. et al. Problems of toxicants in marine food products. 1. Marine biotoxins. Bull. Wld. Hlth. Org. 42, 69, 1970.
- 6747 CALMETTE, A. Les Venins. Les Animaux Venimeux et la Sérothérapie Antivenimeuse. Masson & Cie: Paris, 396p., 1907.
- 6748 CALMETTE, A. Venoms. Venomous Animals and Antivenomous Serum-Therapeutics. John Bale, Sons & Danielsson: London, p. 223, 1908.
- 6749 CARTER, T.D., HILL, J.E. and TATE, G.H.H. Mammals of the Pacific World. Macmillan: N.Y., 227p., 1945.
- 6750 CLELAND, J.B. and SOUTHCOTT, R.V. Illnesses following the eating of seal liver in Australian waters. Med. J. Aust. (1), 760, 1969.
- 6751 CLELAND, J.B. and SOUTHCOTT, R.V. Hypervitaminosis A in the Antarctic in the Australian Antarctic expedition of 1911-1914: a possible explanation of the illnesses of Mertz and Mawson. Med. J. Aust. (1), 1337, 1969.
- 6752 DYMSZA, H., SHIMIZU, Y., RUSSELL, F.E. and GRAHAM, H.D. Poisonous marine animals. In, The Safety of Foods. Graham, H.D. (ed.), Avi Publ.: Westport, Conn., p. 625, 1980.
- 6753 HALSTEAD, B.W. Animal phyla known to contain poisonous marine animals. In, Venoms. Buckley, E.E. and Porges, N. (eds.), A.A.A.S.: Washington, p. 9, 1956.
- 6754 HALSTEAD, B.W. Dangerous Marine Animals. Cornell Maritime Press: Cambridge, Md., p. 134, 1959.
- 6755 HALSTEAD, B.W. Poisonous and Venomous Animals of the World, Vol. 3, Vertebrates. U.S. Govt. Print. Off.: Washington, 1970.
- 6756 HALSTEAD, B.W. Poisonous and Venomous Marine Animals of the World. Rev. edit., Darwin Press: Princeton, N.J., 238p., 1978.
- 6757 HALSTEAD, B.W., CARSCALLEN, L.J. and RUSSELL, F.E. Animal toxins. Part III. Marine organisms. In, Biology Data Book. Altman, P.L. and Dittmer, D.S. (eds.), F.A.S.E.B.: Washington, p. 336, 1964.
- 6758 HASHIMOTO, Y. Marine Toxins. Univ. Tokyo Press: Tokyo, 1977.
- 6759 HASHIMOTO, Y. Marine Toxins and Other Bioactive Marine Metabolites. Jpn. Sci. Soc.: Tokyo, 369p., 1979.
- 6760 HENNIG, R. Die ältesten literarischen Zeugnisse für eine Kenntnis des Eisbären. Natur. Volk. 71, 361, 1941.
- 6761 KOSSEL, H. Zur Kenntniss der Antitoxinwirkung. Berl. klin. Wschr. 35, 152, 1898.
- 6762 KROGH, A. and KROGH, M. A study of the diet and metabolism of Eskimos undertaken in 1908 on an expedition to Greenland. Meddel. om Gronland 51, 1, 1913.
- 6763 LEWIS, R.W. and LENTFER, J.W. The vitamin A content of polar bear liver: range and variability. Comp. Biochem. Physiol. 22, 923, 1967.

- 6764 MACGOWAN, D.J. Porpoise poison. China Insp. Customs Med. Rept. 27, 12, 1884.
- 6765 MIZUTA, M., ITOH, T., MURAKAMI, T. and MIZOBE, M. [Poisoning by whale.] Nippon Iji Shimpo (1710), 27, 1957.
- 6766 OLESON, T.J. Polar bears in the Middle Ages. Can. Hist. Rev. 31, 47, 1950.
- 6767 OLSEN, S. The polar bear. Alaska Sportsman 26, 10, 1960.
- 6768 PHISALIX, M. Animaux Venimeux et Venins. 2 vols., Masson & Cie: Paris, 1922.
- 6769 RODAHL, K. The Toxic Effect of Polar Bear Liver. A.W. Broggers Boktrykkeri A/S: Oslo, 90p., 1949.
- 6770 RODAHL, K. and DAVIES, A.W. Vitamin A in seals. Biochem. J. 45, 408, 1949.
- 6771 RODAHL, K. and MOORE, T. The vitamin A content and toxicity of bear and seal liver. Biochem. J. 37, 166, 1943.
- 6772 RUSSELL, F.E. Vitamin A content of polar bear liver. Toxicor 5, 61, 1967.
- 6773 SOUTHCOTT, R.V. The neurologic effects of noxious marine creatures. In, Contemporary Neurology Series. Hornabrook, R.W. (ed.), F.A. Davis: Philadelphia, Vol. 12, p. 165, 1975.
- 6774 SOUTHCOTT, R.V. Marine toxins. In, Handbook of Clinical Neurology. Vinken, P.J. and Bruyn, G.W. (eds.), North-Holland: Amsterdam, vol. 37, part 2, p. 27, 1979.
- 6775 SOUTHCOTT, R.V. Marine envenomation and intoxication in man. In, Neurotoxins. Fundamental and Clinical Advances. Chubb, I.W. and Geffen, L.B. (eds.), Adelaide Univ. Union Pres: Adelaide, S. Aust., p. 75, 1979.
- 6776 SOUTHCOTT, R.V., CHESTERFIELD, N.J. and LUGG, D.J. Vitamin A content of the livers of huskies and some seals from Antarctic and subantarctic regions. Med. J. Aust. (1), 311, 1971.
- 6777 STEFANSSON, V. The Friendly Arctic. Macmillan: N.Y., p. 479, 1921.
- 6778 STEFANSSON, V. Arctic Manual. Macmillan: N.Y., p. 98, 109, 230, 282, 1944.
- 6779 TALIZIN, F.F. [Poisonous Animals of the Land and Sea.] Moscow, p. 94, 1970.

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